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AFWAL-TR-87-3098
PART V

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UNSTEADY LOW-SPEED WINDTUNNEL TEST
OF A STRAKED DELTA WING, OSCILLATING IN PITCH

PART V: POWER SPECTRAL DENSITY PLOTS OF THE OVERALL LOADS FOR
HARMONIC OSCILLATION AND THE RESPONSE OF OVERALL LOADS
TO (1-COS) INPUTS

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APRIL 1988

FINAL REPORT FOR PERIOD JUNE 1985-AUGUST 1987

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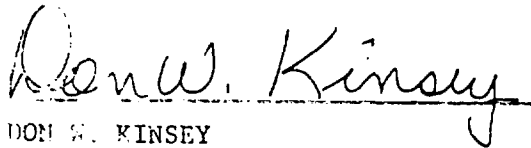
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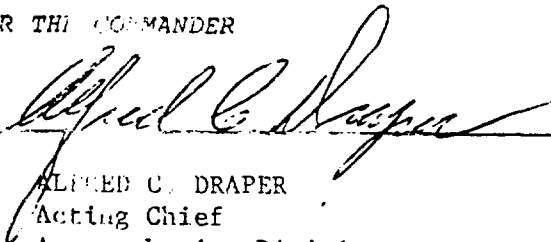


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SECURITY CLASSIFICATION OF THIS PAGE

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REPORT DOCUMENTATION PAGE

Form Approved
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1a. REPORT SECURITY CLASSIFICATION UNCLASSIFIED			1b. RESTRICTIVE MARKINGS None		
2a. SECURITY CLASSIFICATION AUTHORITY			3. DISTRIBUTION/AVAILABILITY OF REPORT Approved for public release; distribution is unlimited		
2b. DECLASSIFICATION/DOWNGRADING SCHEDULE					
4. PERFORMING ORGANIZATION REPORT NUMBER(S)			5. MONITORING ORGANIZATION REPORT NUMBER(S) AFWAL-TR-87-3098, PART V		
6a. NAME OF PERFORMING ORGANIZATION General Dynamics		6b. OFFICE SYMBOL (If applicable)	7a. NAME OF MONITORING ORGANIZATION Air Force Wright Aeronautical Laboratories Flight Dynamics Laboratory, AFWAL/FIMM		
6c. ADDRESS (City, State, and ZIP Code) P.O. Box 748 Fort Worth TX 76101			7b. ADDRESS (City, State, and ZIP Code) Wright-Patterson AFB OH 45433-6553		
8a. NAME OF FUNDING/SPONSORING ORGANIZATION		8b. OFFICE SYMBOL (If applicable)	9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER F33615-85-C-3013		
8c. ADDRESS (City, State, and ZIP Code)			10. SOURCE OF FUNDING NUMBERS		
			PROGRAM ELEMENT NO. 62201F	PROJECT NO. 2404	TASK NO. 10
			WORK UNIT ACCESSION NO. 94		
11. TITLE (Include Security Classification) UNSTEADY LOW-SPEED WIND TUNNEL TEST OF A STRAKED DELTA WING, OSCILLATING IN PITCH, PART V: (See Reverse)					
12. PERSONAL AUTHOR(S) Cunningham, A.M., General Dynamics* (See Reverse)					
13a. TYPE OF REPORT FINAL		13b. TIME COVERED FROM Jun 85 TO Aug 87		14. DATE OF REPORT (Year, Month, Day) 1988 April	
				15. PAGE COUNT 292	
16. SUPPLEMENTARY NOTATION from 19,					
17. COSATI CODES			18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)		
FIELD	GROUP	SUB-GROUP			
01	01		Unsteady Flow; Vortex Flow; Wind Tunnel Test. (jhd) ←		
20	04				
19. ABSTRACT (Continue on reverse if necessary and identify by block number)					
Results of a wind tunnel test of an oscillating straked wing. The report provides unsteady airloads and pressure distributions for a range of incidences (-8 to 50 deg.) and amplitudes (1 to 16 deg.). The wind speed was 80 meters/second, which provided reduced frequencies up to 0.50 based on root chord. The zeroth and first harmonic as well as the continuous time history of the pressure and overall loads were measured. Flow visualization was performed for flow of 30 meters/second using a pulsating laser light sheet. In this part V, the power spectral densities for various conditions are contained in appendix A to present the relative frequency content of selected overall loads at continuous oscillating model conditions ranging from nearly linear (first harmonic dominant) to highly nonlinear (many higher harmonics) characteristics. A survey of the selected runs and their test conditions is given in table 11 of part I including the components of the balance and the corresponding plot numbers of the spectra presented. (See Reverse)					
20. DISTRIBUTION/AVAILABILITY OF ABSTRACT ☒ UNCLASSIFIED/UNLIMITED ☐ SAME AS RPT. ☐ DTIC USERS			21. ABSTRACT SECURITY CLASSIFICATION UNCLASSIFIED		
22a. NAME OF RESPONSIBLE INDIVIDUAL Don W. Kinsey			22b. TELEPHONE (Include Area Code) (513) 255-2481		22c. OFFICE SYMBOL AFWAL/FIMM

11. TITLE CONTD

PART V: POWER SPECTRAL DENSITY PLOTS OF THE OVERALL LOADS FOR HARMONIC
OSCILLATION AND THE RESPONSE OF OVERALL LOADS TO (1-COS) INPUTS

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Zwaan, R.J.,	"	"

19. ABSTRACT CONTD

Appendix B contains the time history plots of incidence and all air loads for (1-cos) pitch pulses that simulate transient aircraft maneuvers. Also included are half pulse data which represent a pitch-up and hold at a higher angle of attack as well as a pitch-down and hold at a lower angle of attack. A survey of the test conditions and their runnumbers is given in table 12 of part I. All (1-cos) pitch pulse runs were conducted three times and one of the three runs was chosen for presentation. To give an idea of the reproducibility plots for all three runs of the balance components vs. incidence for two test conditions are also enclosed at the end.

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Keywords: → to field 18



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FOREWORD

This report summarizes the results of the windtunnel test of an oscillating straked wing conducted under a cooperative program of research between General Dynamics Fort Worth Division, Fort Worth, Texas, and the National Aerospace Laboratory (NLR), The Netherlands. The model and support system was designed and fabricated at NLR under a separate program with General Dynamics and NLR funding. The test preparation, wind-tunnel test and reporting were performed at NLR under Air Force Contract F33615-85-C-3013, for the Flight Dynamics Laboratory of the Air Force Wright Aeronautical Laboratories, Wright-Patterson Air Force Base, Ohio. The work was administered by Mr. D.W. Kinsey of the Aeromechanics Division (AFWAL/FIM). Additional technical monitoring support was provided by Mr. T. Cord of the Flight Control Division (AFWAL/FIG).

The program manager and principal investigator was Dr. A.M. Cunningham Jr. at General Dynamics and Mr. R.G. den Boer was the principal investigator at NLR. Mr. den Boer was assisted by the following NLR specialists: C.S.G. Dogger, E.G.M. Geurts, A.J. Persoon, A.P. Retèl and R.J. Zwaan.

This report consists of six parts. Part I presents a general description of the model and test program and a discussion of the results. Part II contains the steady pressure distribution plots and the major part of the zeroth and first order harmonic unsteady pressure distribution plots. Part III contains the remainder of the unsteady pressure distribution plots and plots of the steady and the zeroth and first order harmonic unsteady overall loads. Part IV contains time history plots of the unsteady pressures and overall loads. Part V contains power spectral density plots of the overall loads at harmonic oscillation and time history plots of overall loads for $(1-\cos)$ model motions. Part VI contains results of the flow visualization program.

CONTENTS

	Page
LIST OF SYMBOLS	5
APPENDIX A: POWER SPECTRAL DENSITY PLOTS OF OVERALL LOADS	6
APPENDIX B: PLOTS OF THE TIME HISTORIES OF OVERALL LOADS FOR (1-COS) INPUTS	81A

LIST OF SYMBOLS

ALPHA, α	wing incidence	(deg)
C _l	wing rolling moment coefficient	
C _m	wing pitching moment coefficient	
	ref. axis = rotation axis $x/c_r = 73.27\%$	
C _n	wing yawing moment coefficient	
C _N	wing normal force coefficient	
c _r	root chord ($c_r = 0.7855$)	(m)
C _T	wing tangential force coefficient	
C _Y	wing side force coefficient	
DALPHA, $d\alpha$	harmonic oscillation: amplitude of unsteady wing incidence	(deg, rad)
	(1-cos) inputs: magnitude of wing incidence variation	
l	wing rolling moment (figure 1, part I)	(Nm)
m	wing pitching moment (figure 1, part I)	
	ref. axis $x/c_r = 73.27\%$	(Nm)
n	wing yawing moment (figure 1, part I)	(Nm)
N	wing normal force (figure 1, part I)	(Nm)
RUN	run number	
t	time	(s)
T	wing tangential force (figure 1, part I)	(N)
T	harmonic oscillation: period of one oscillation	(s)
	(1-cos) input: duration of (1-cos) input	(s)
Y	wing side force (figure 1, part I)	(N)

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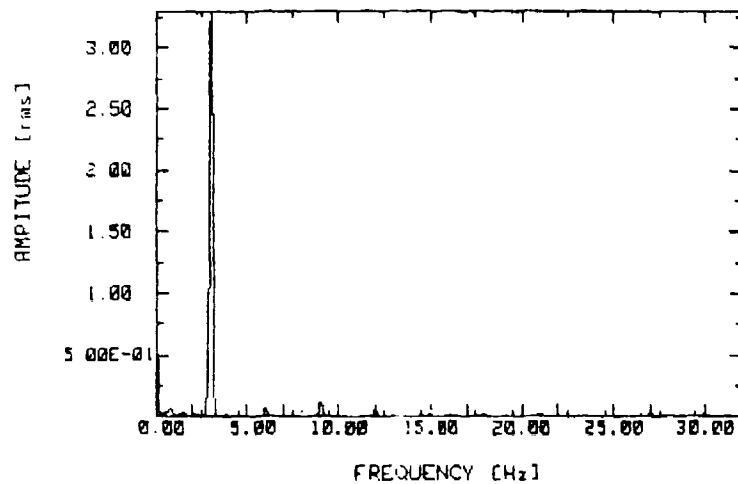
α , ALPHA	wing incidence	(deg)
$d\alpha$, DALPHA	harmonic oscillation: amplitude of unsteady wing incidence	(deg, rad)
	(1-cos) input: magnitude of wing incidence variation	

SUBSCRIPT

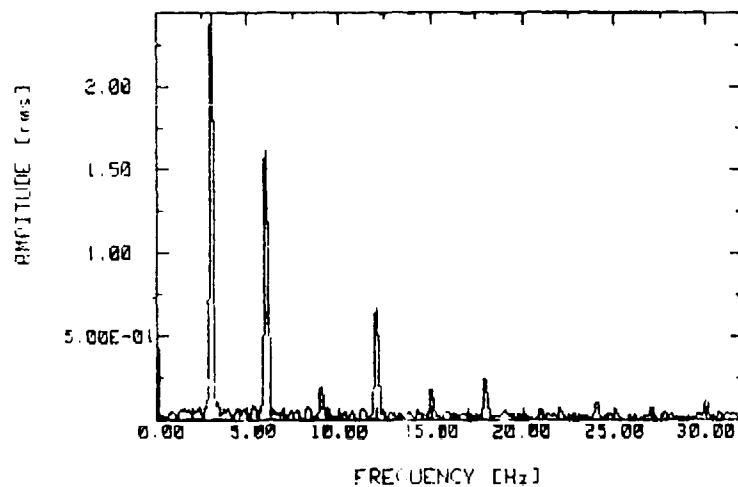
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APPENDIX A
POWER SPECTRAL DENSITY PLOTS OF OVERALL LOADS

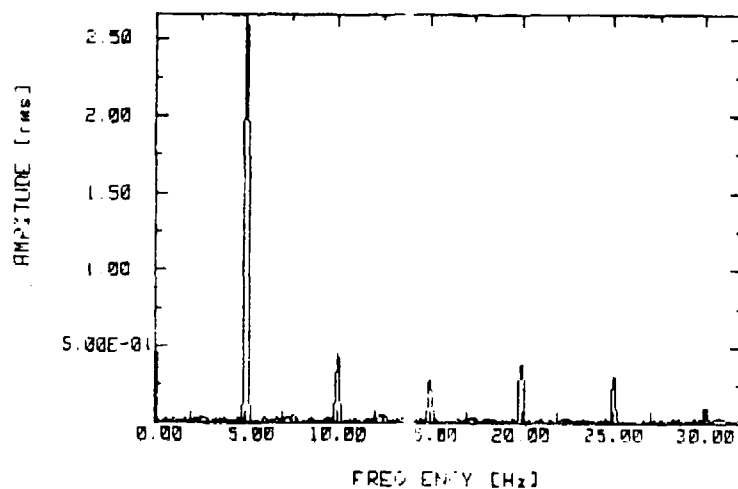
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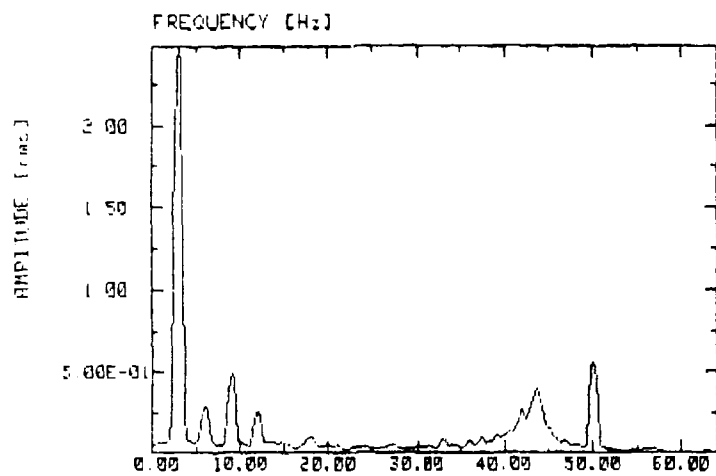


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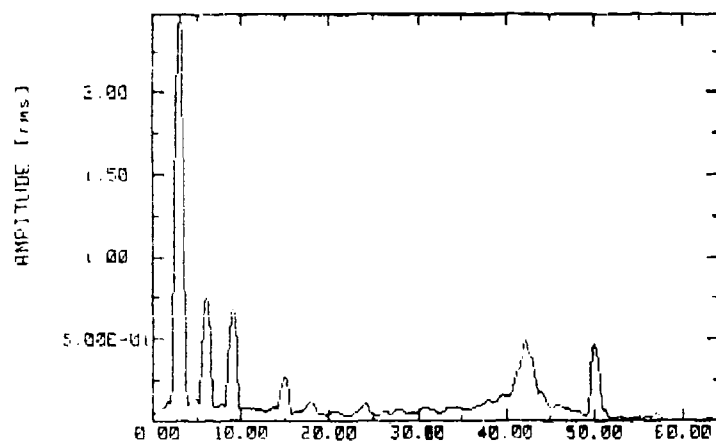


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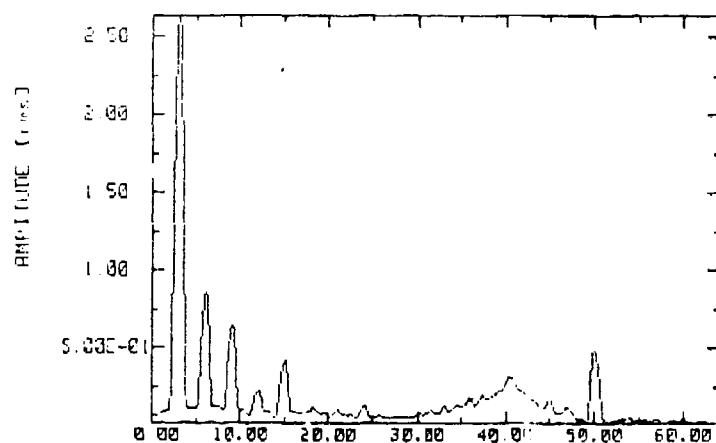




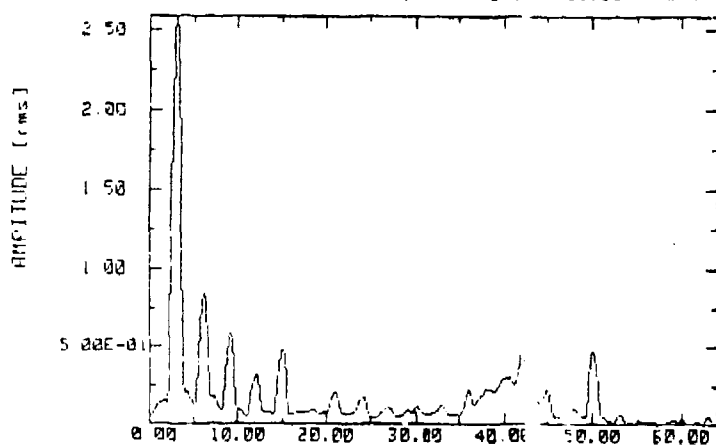
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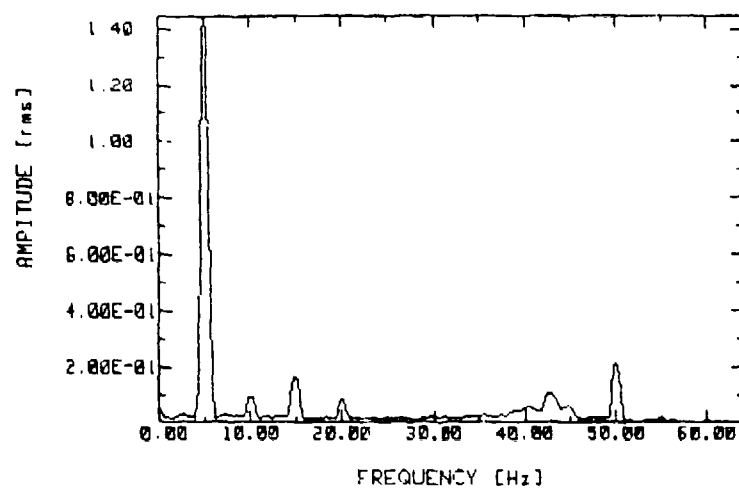
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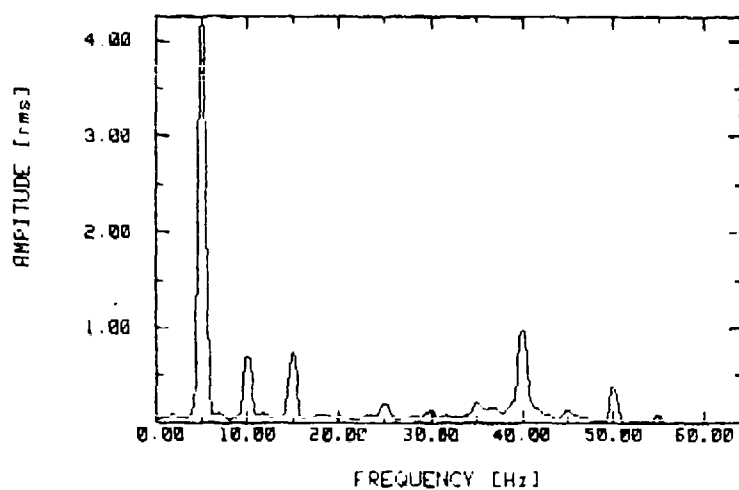
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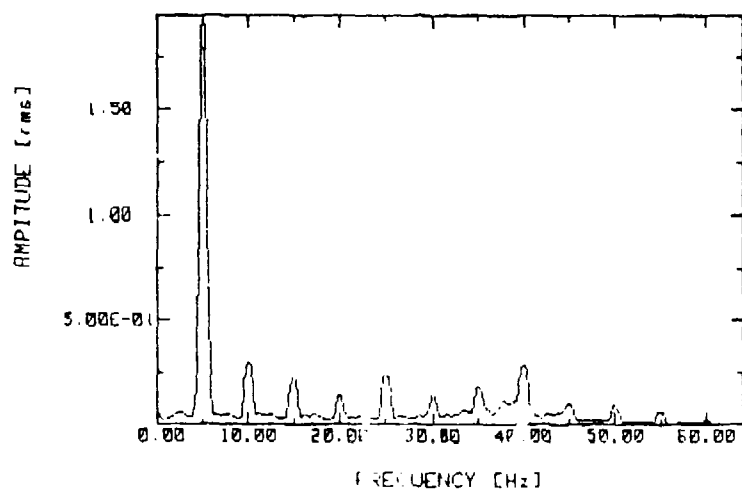
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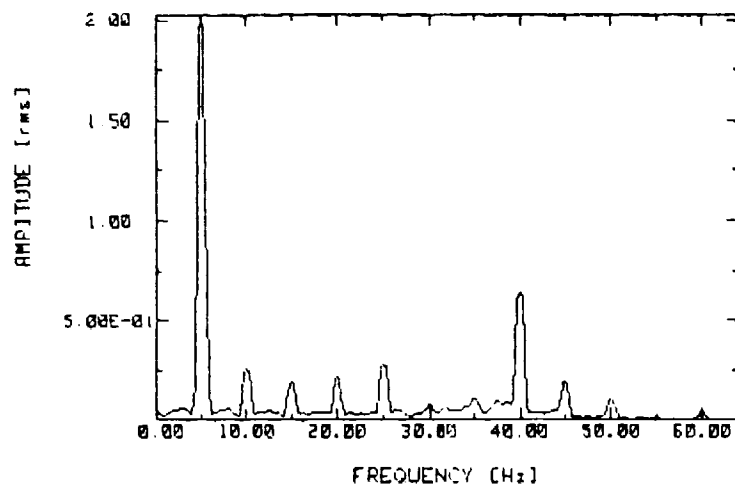
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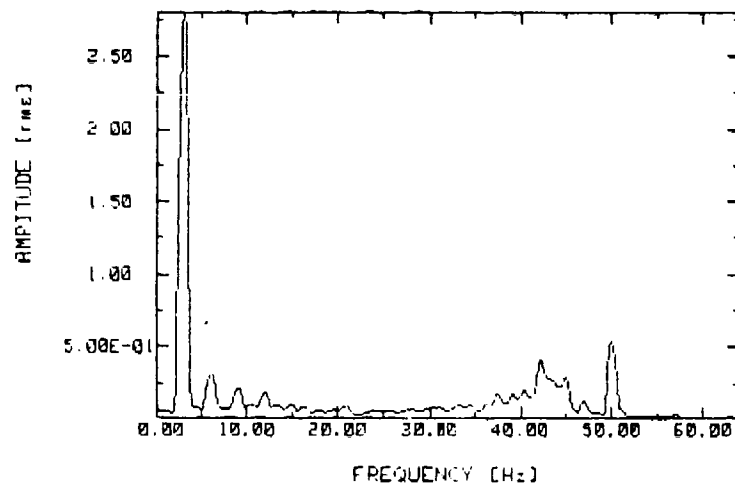
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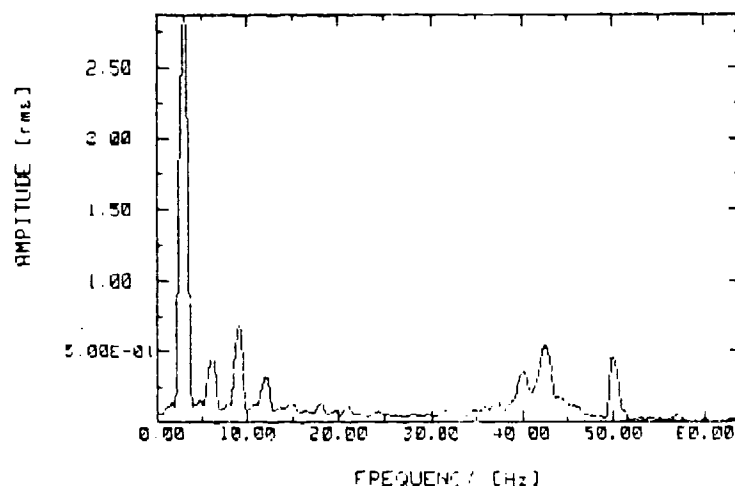
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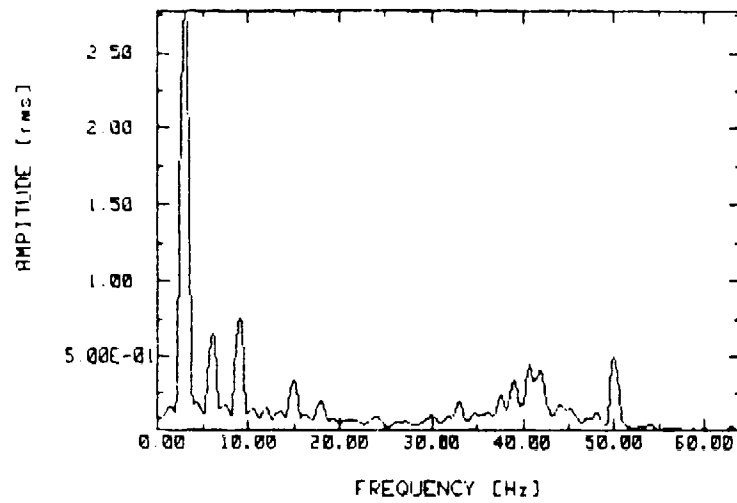
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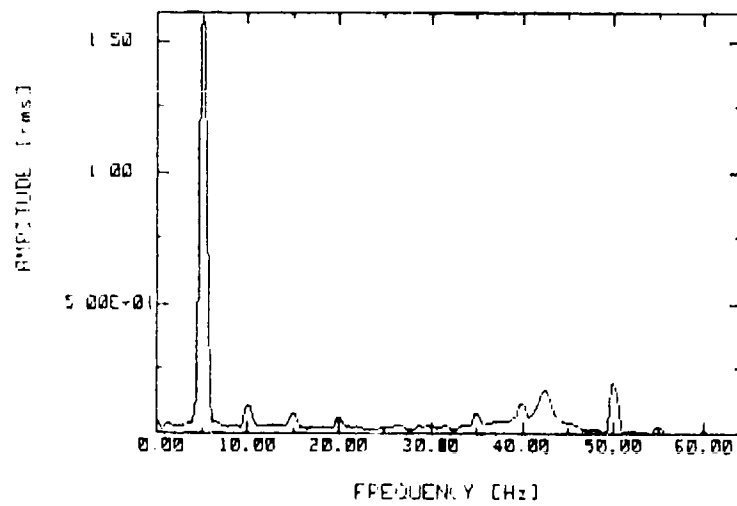
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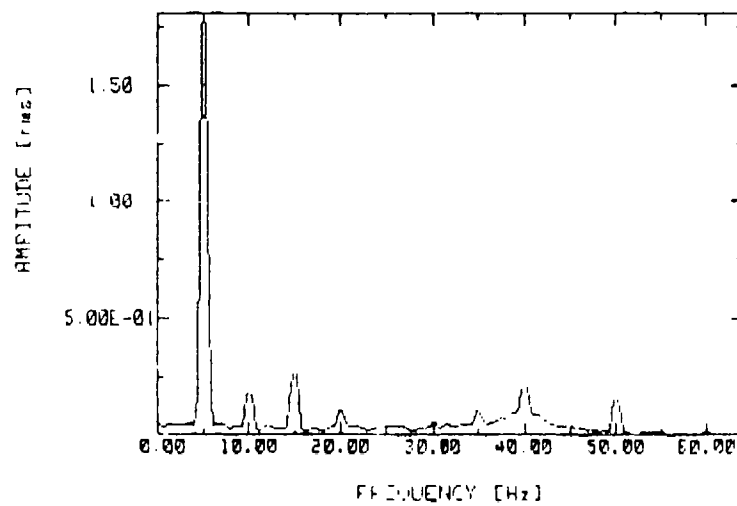
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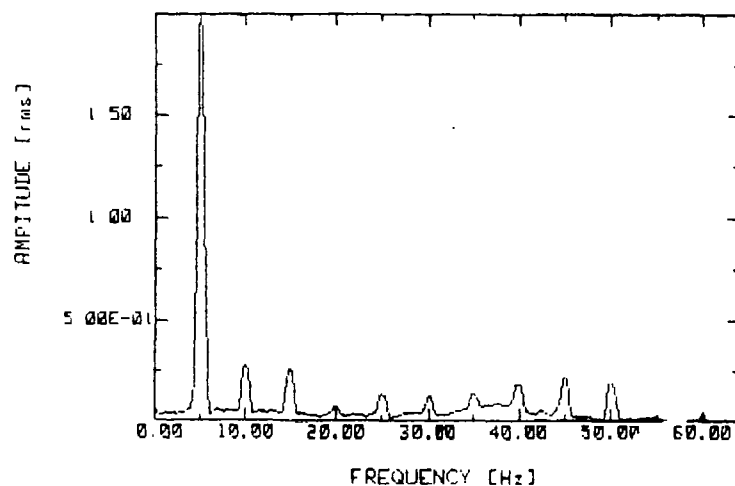
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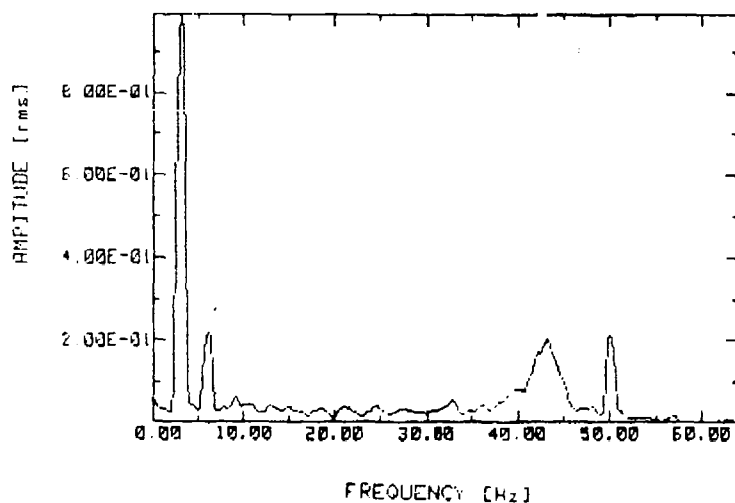
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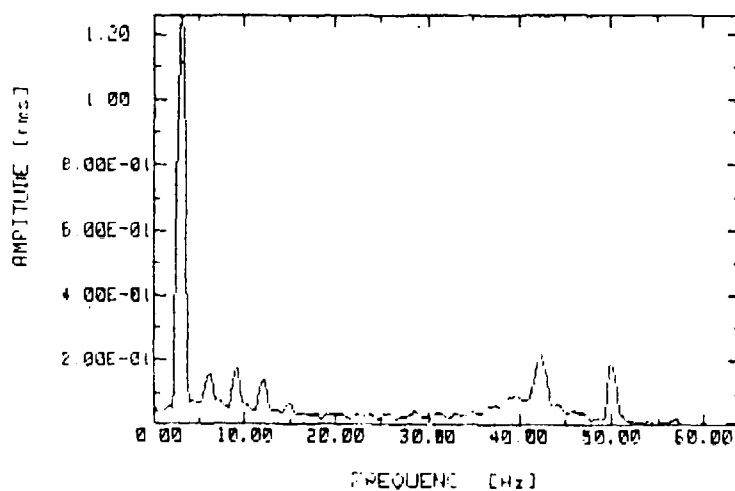
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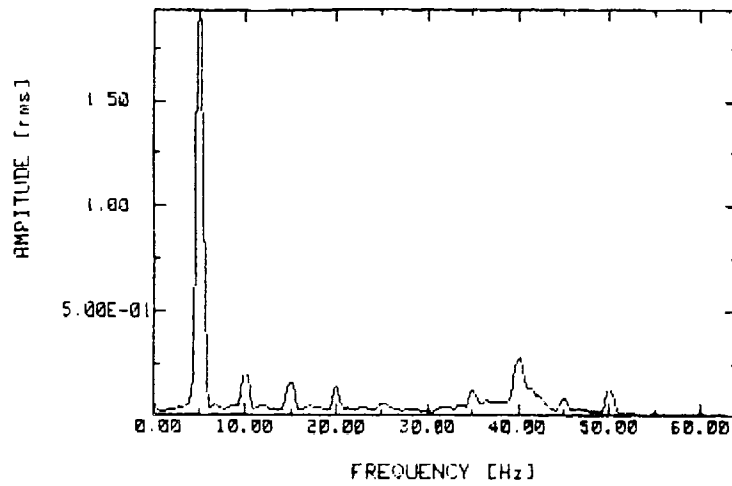
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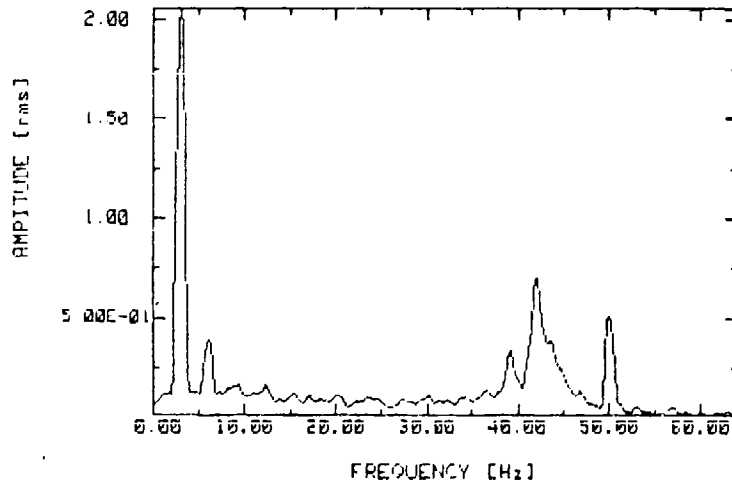
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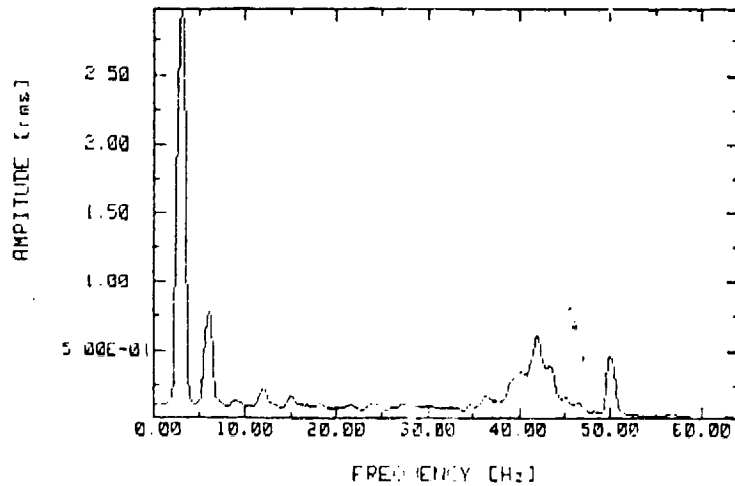
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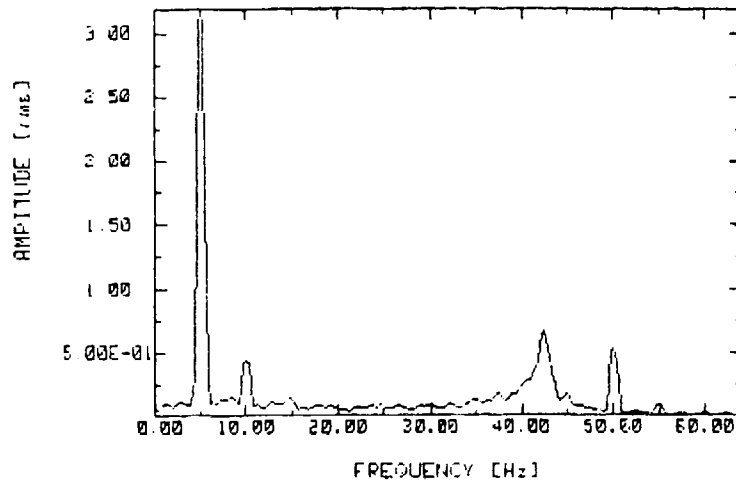
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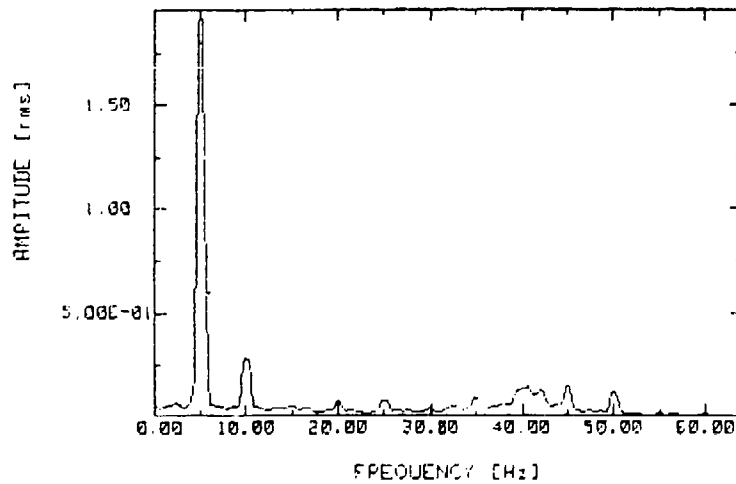
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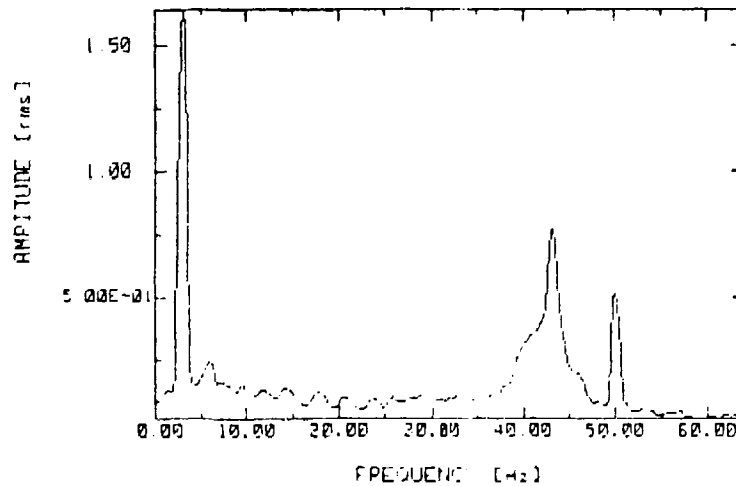
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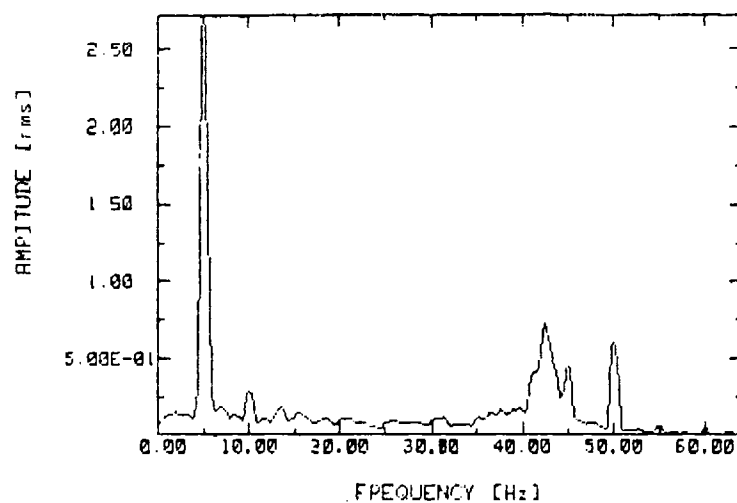
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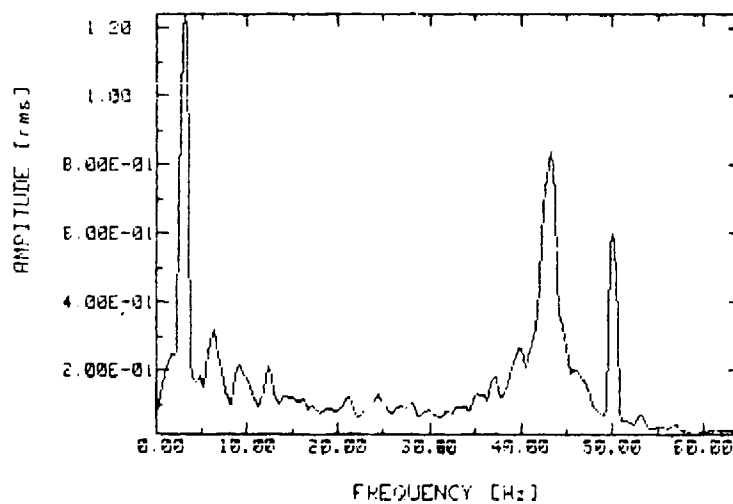
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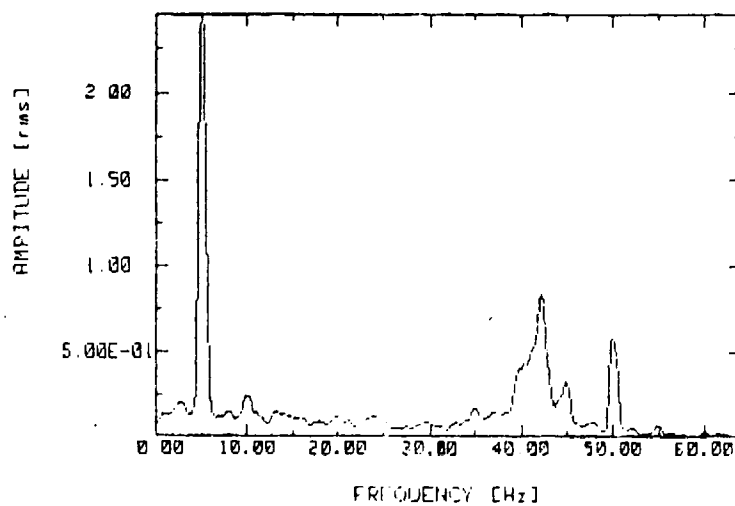
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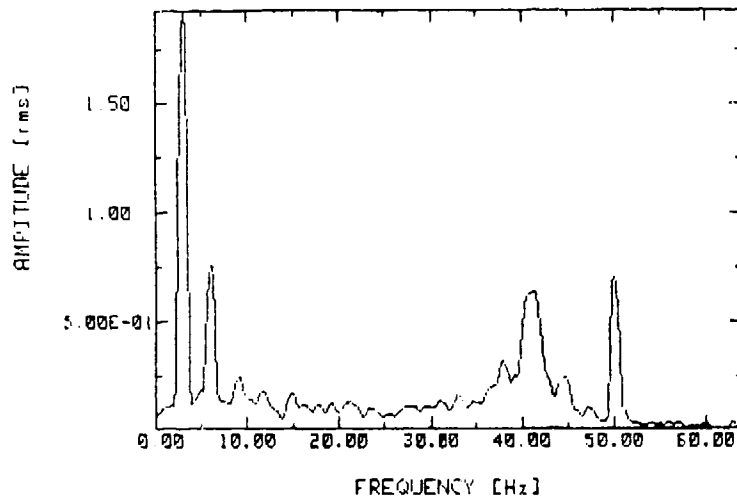
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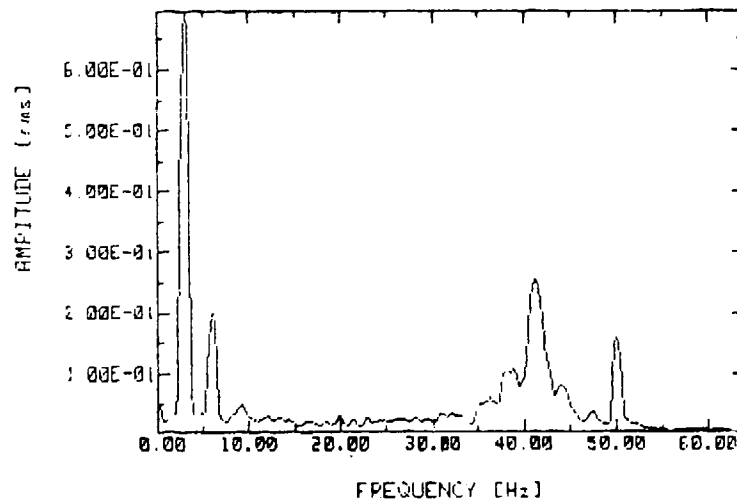
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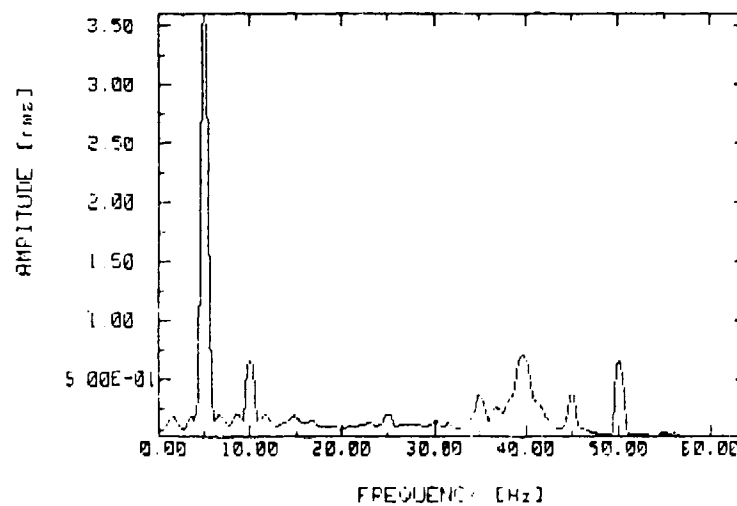
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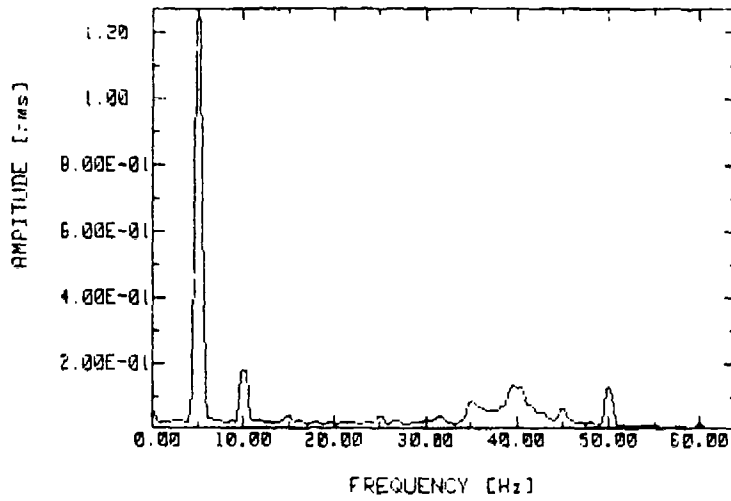
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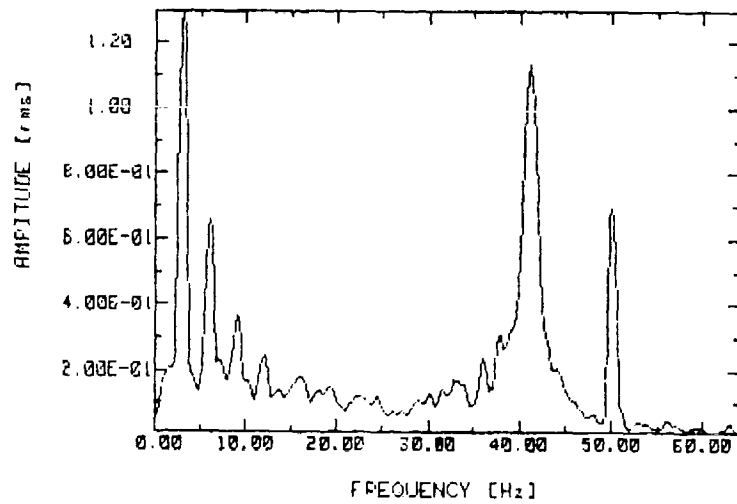
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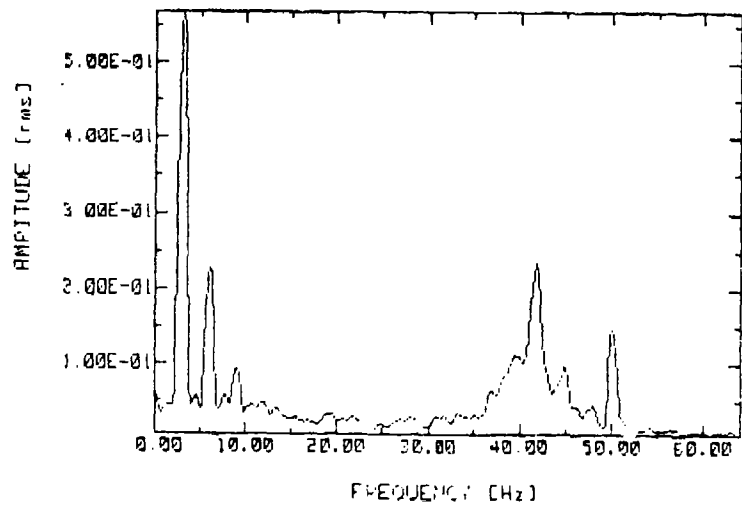
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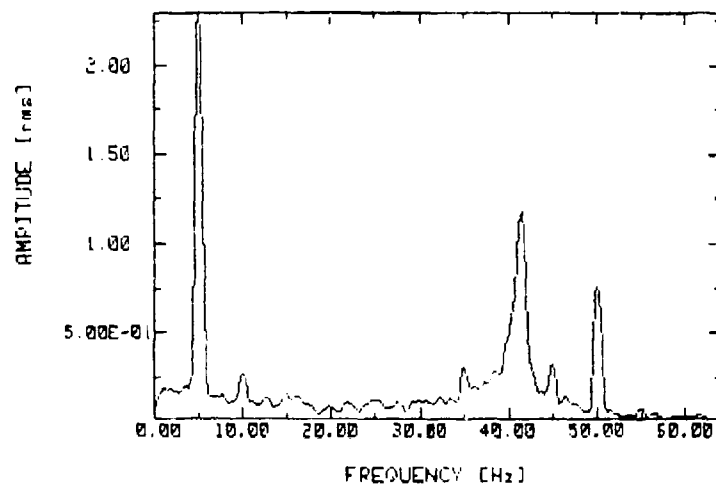
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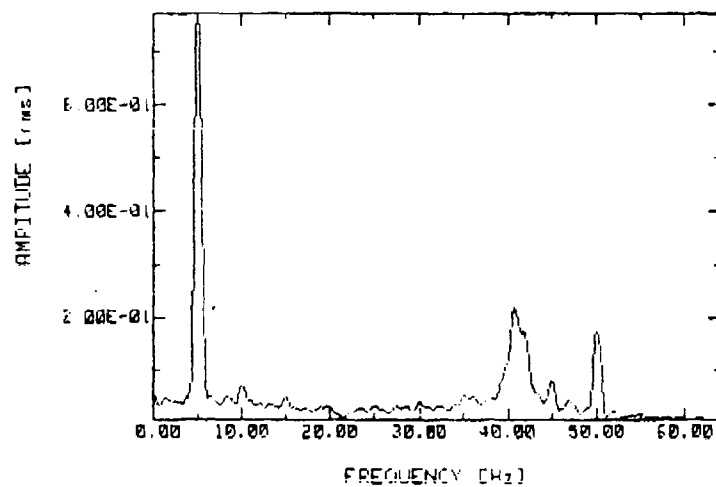
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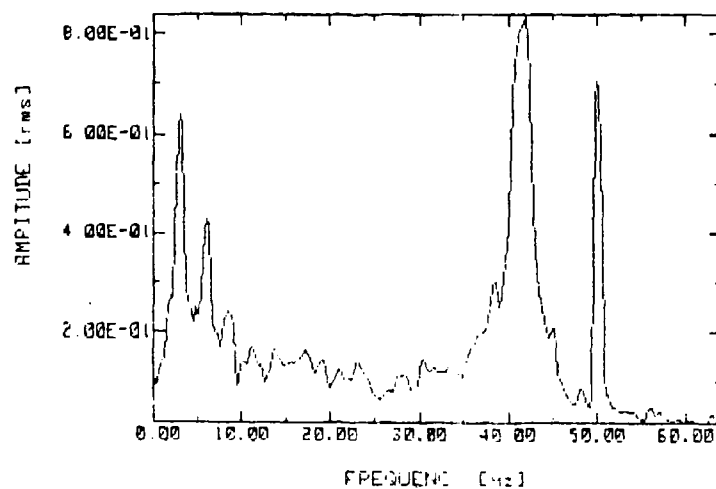
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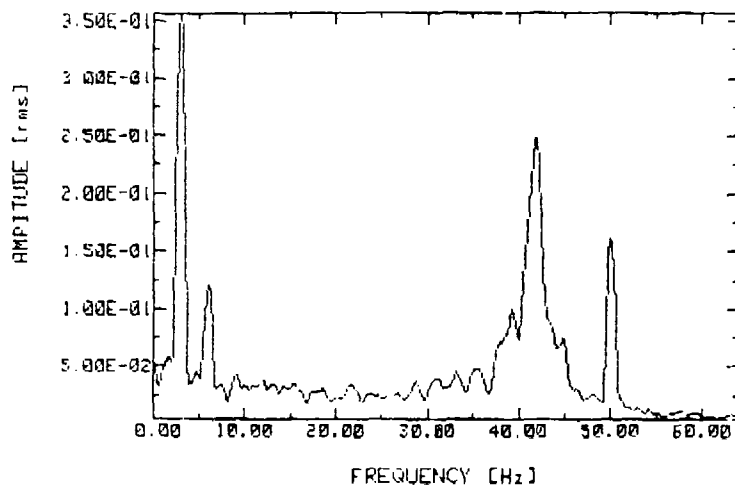
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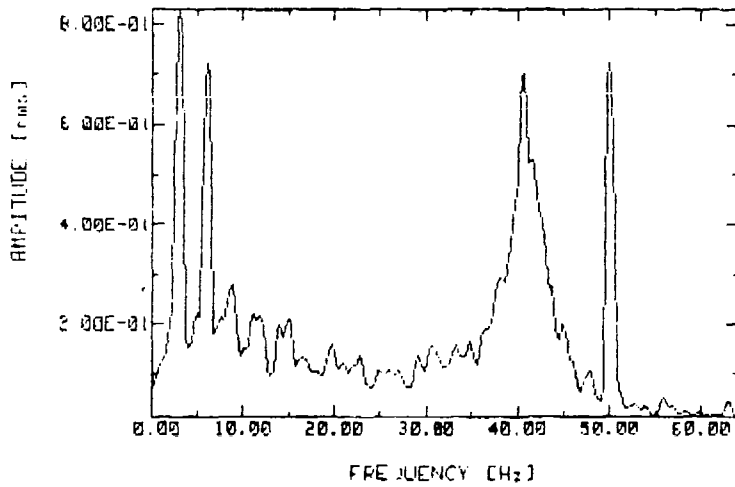
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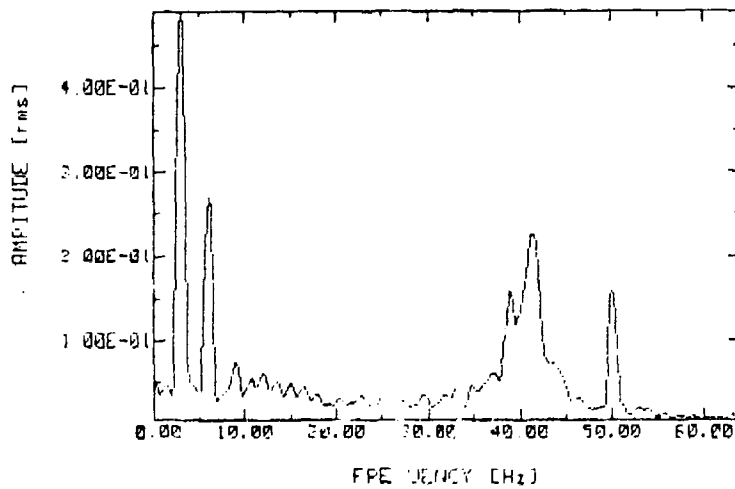
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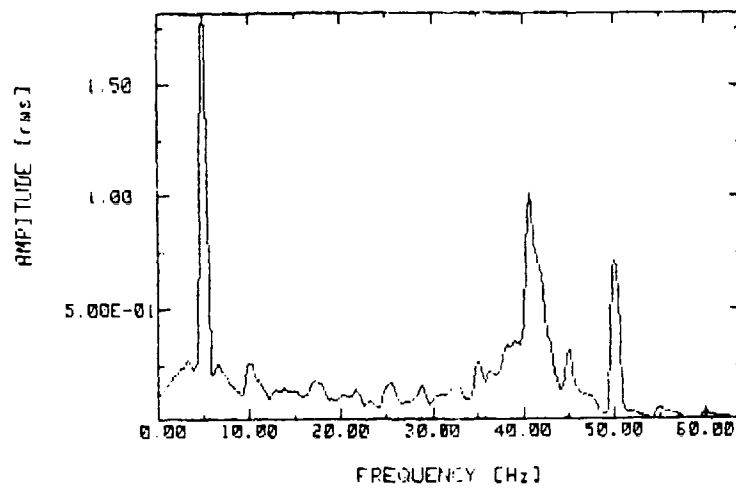
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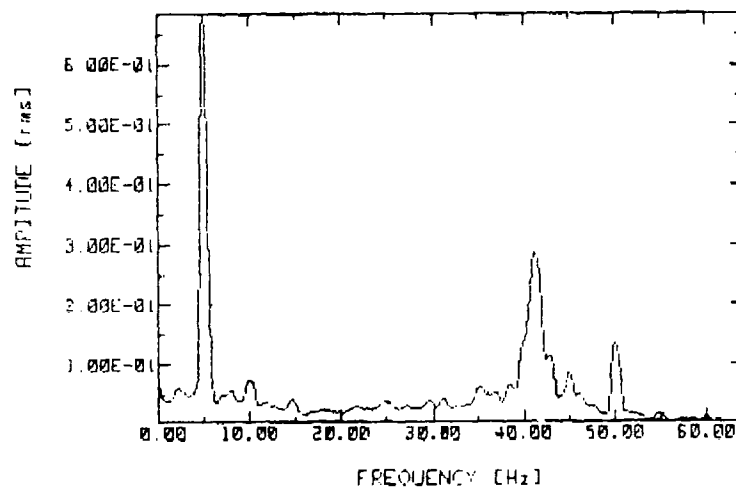
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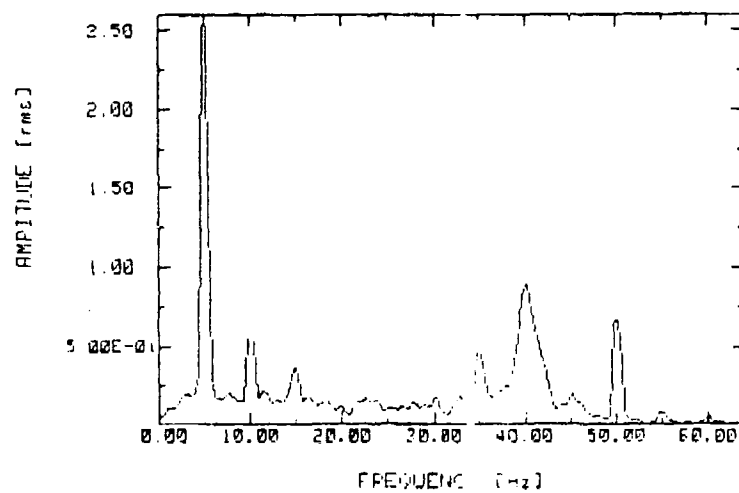
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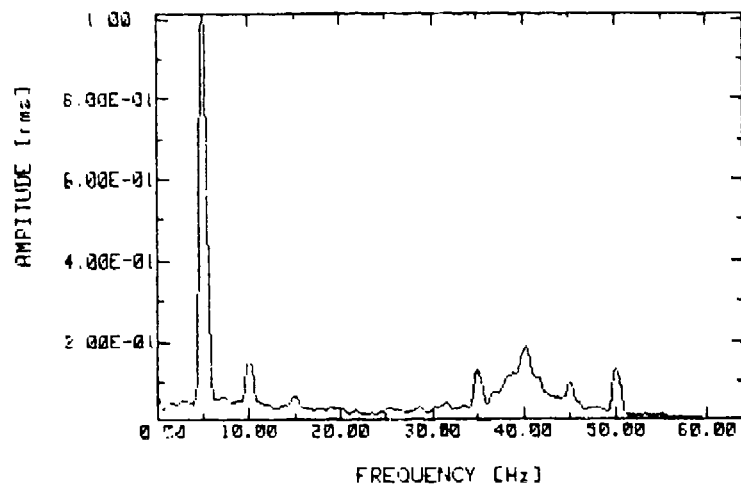
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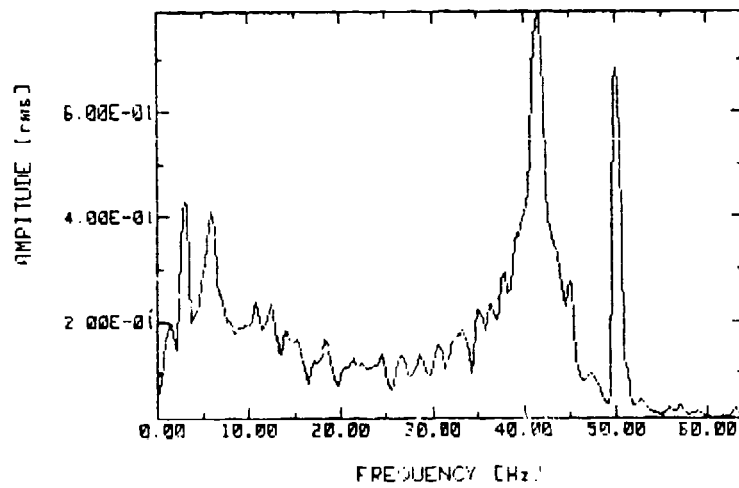
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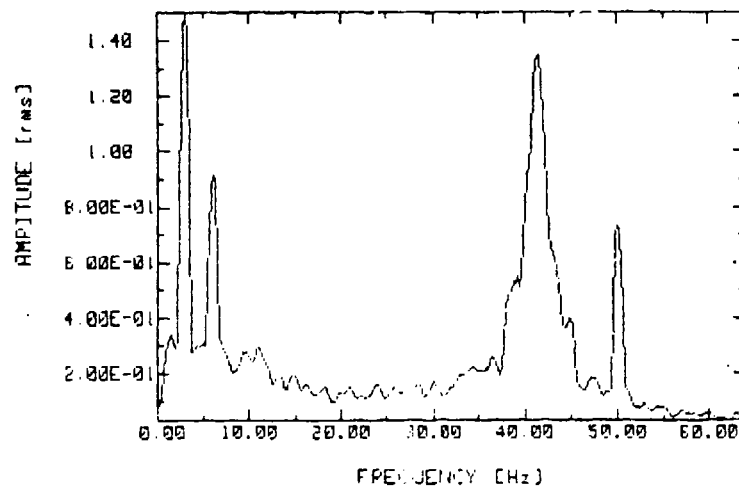
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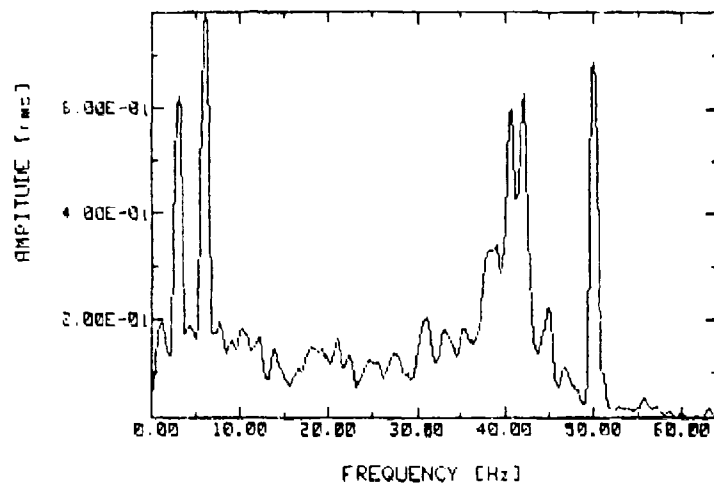
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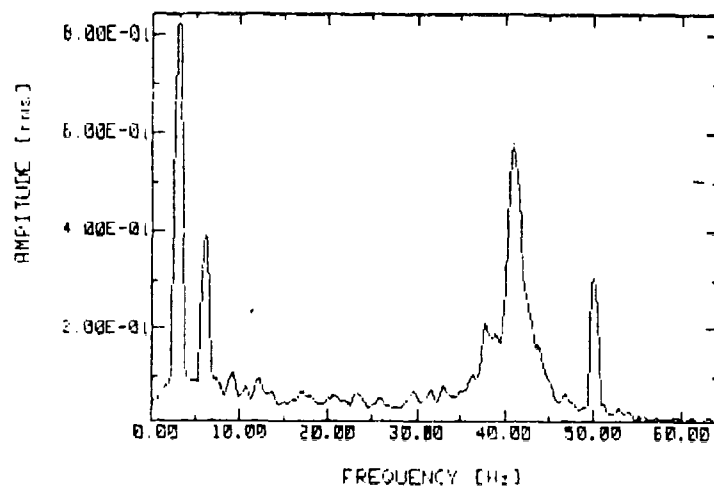
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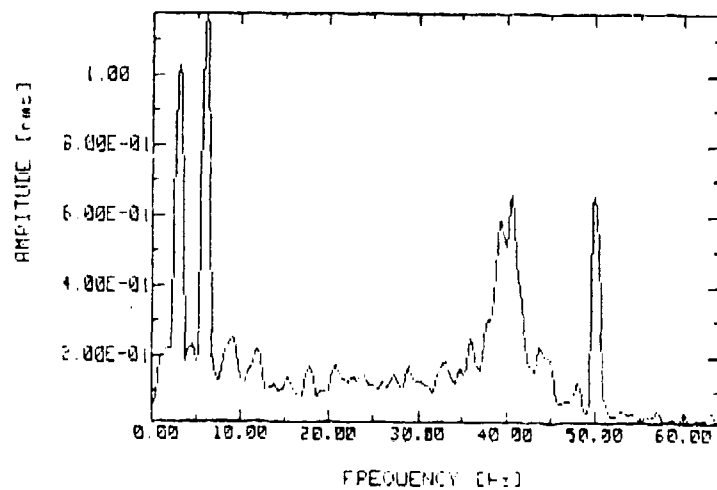
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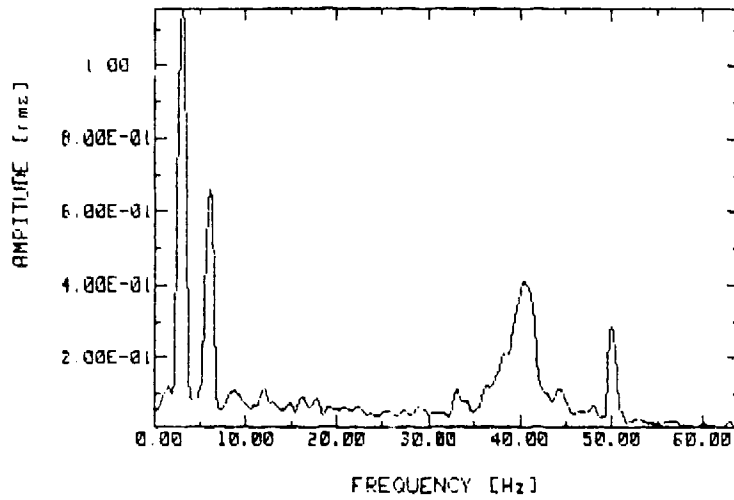
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#RV: 10



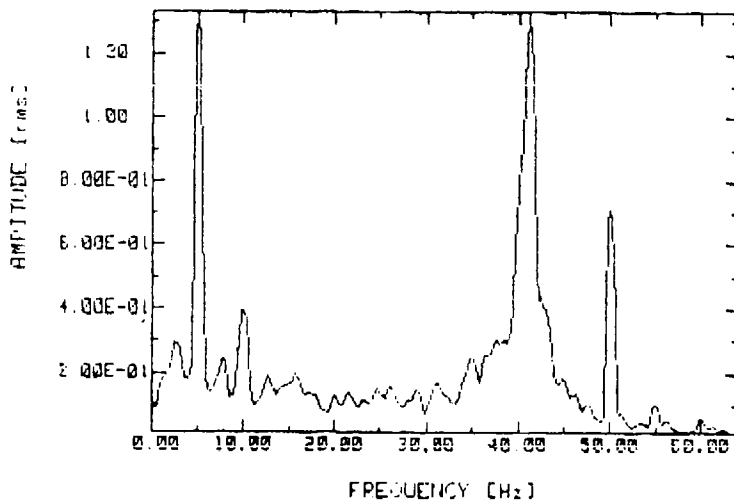
R SPEC 1 DELT_2179

#AV: 10



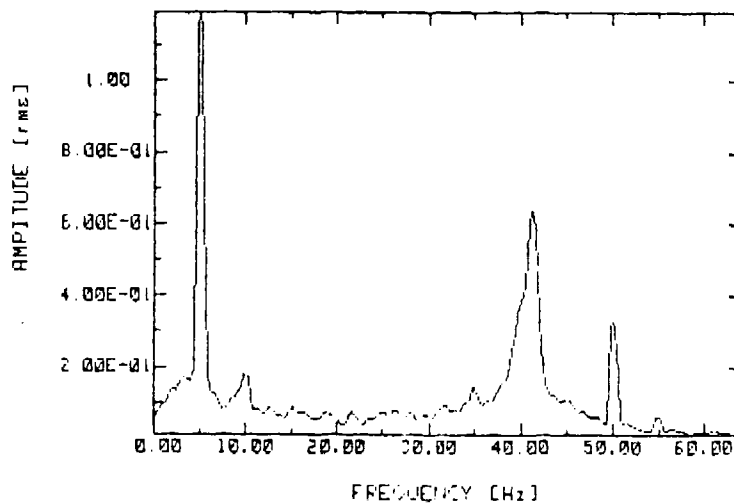
R SPEC 1 DELT_2221

#AV: 10



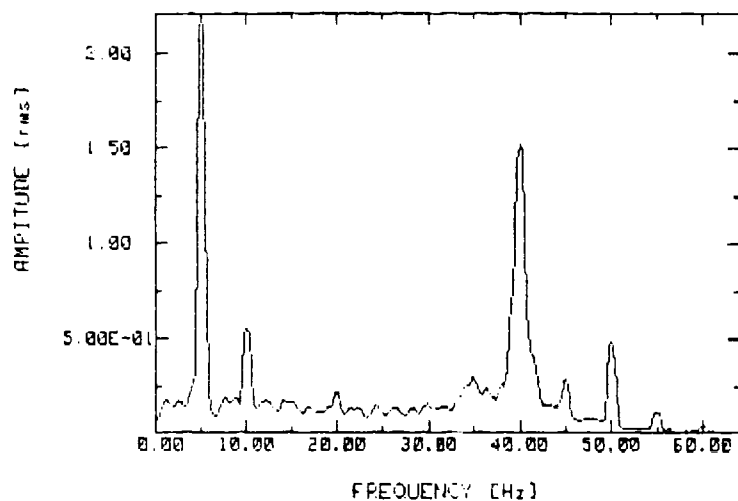
R SPEC 1 DELT_2222

#AV: 10



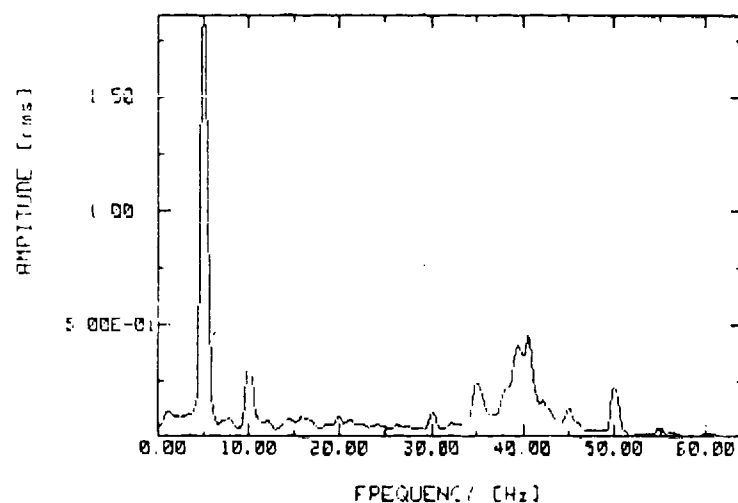
A SPEC 1 DELT_2225

#AV: 10



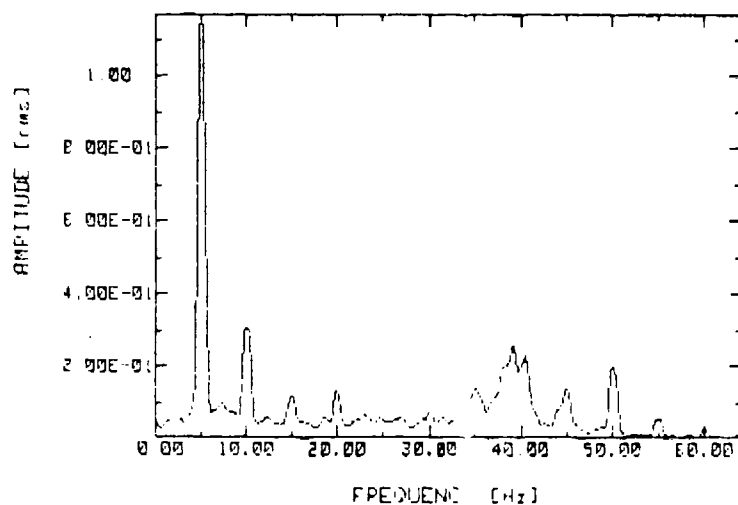
A SPEC 1 DELT_2226

#AV: 10



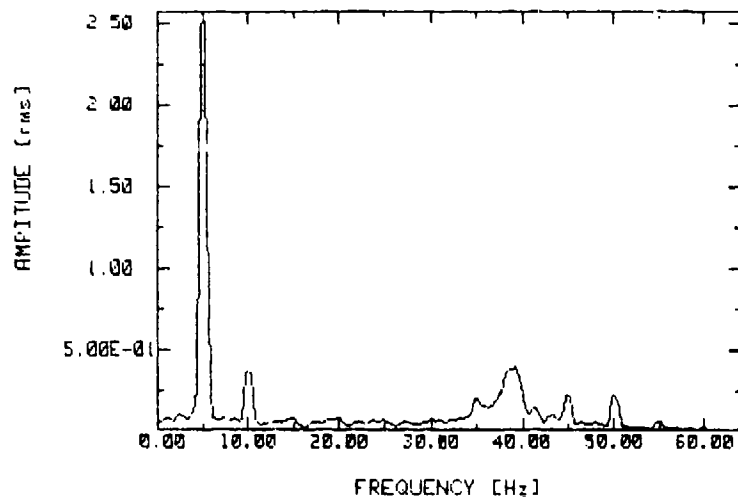
A SPEC 1 DELT_2231

#AV: 10



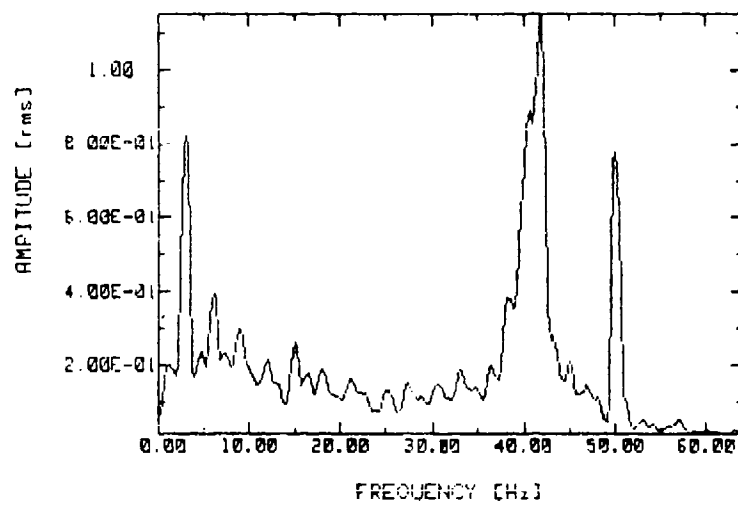
A SPEC 1 DELT_2232

#RV: 10



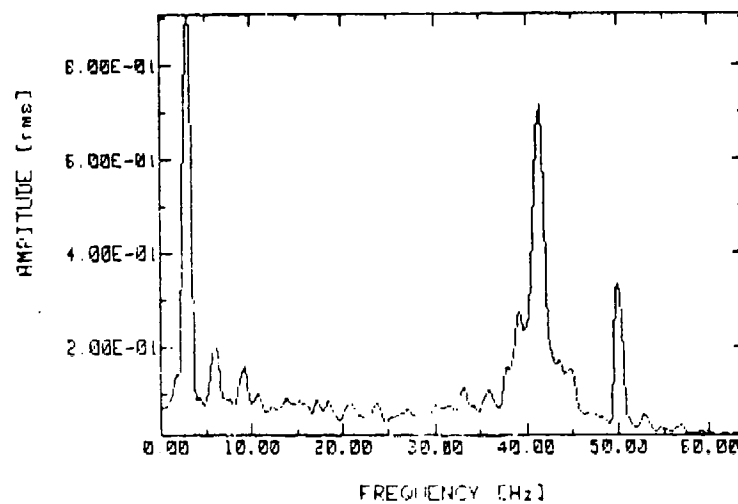
A SPEC 1 DELT_2267

#RV: 10



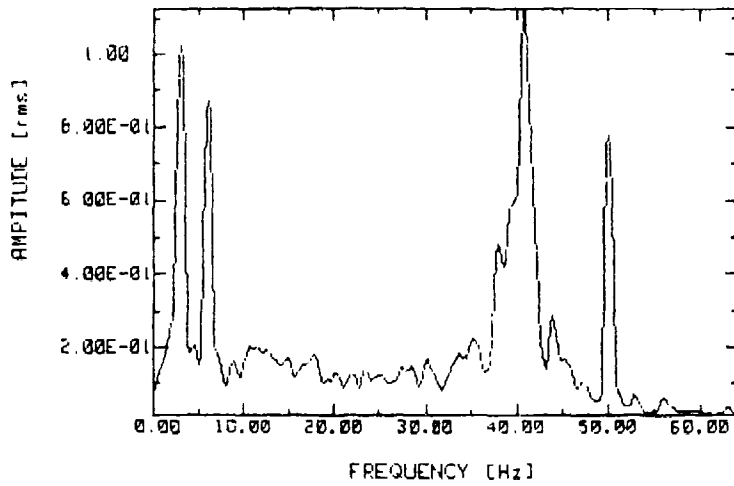
A SPEC 1 DELT_2269

#RV: 10



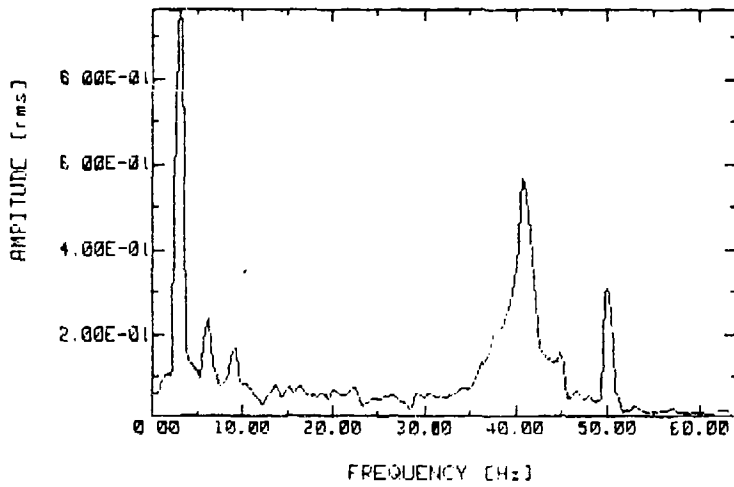
A SPEC 1 DELT_2271

#RV: 10



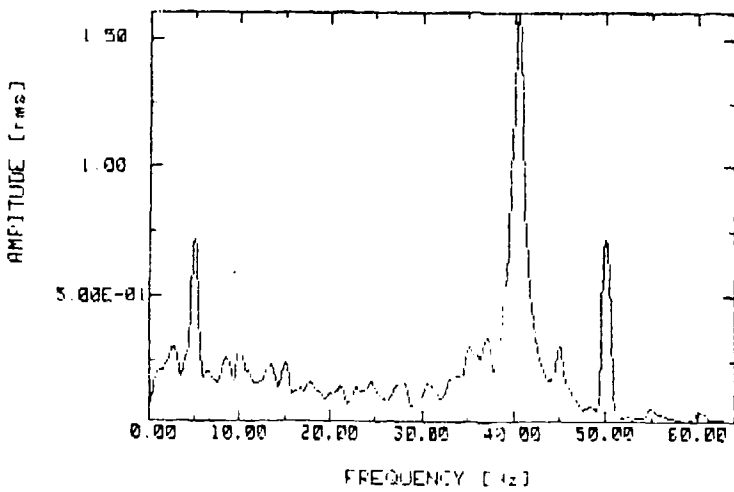
A SPEC 1 DELT_2272

#RV: 10



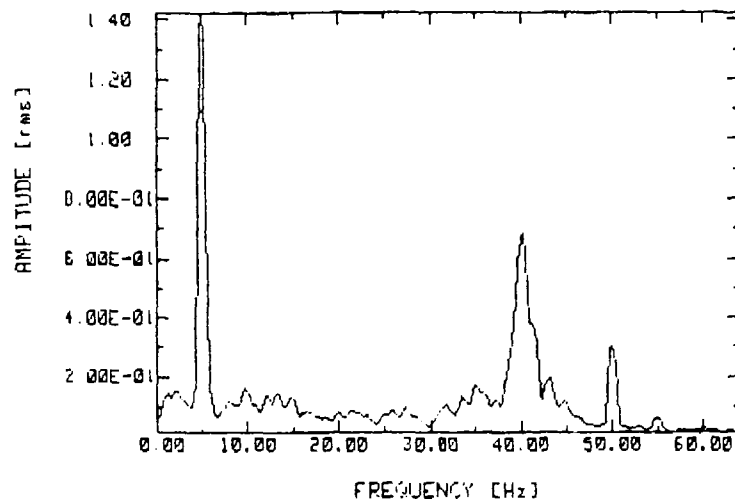
A SPEC 1 DELT_3105

#RV: 10



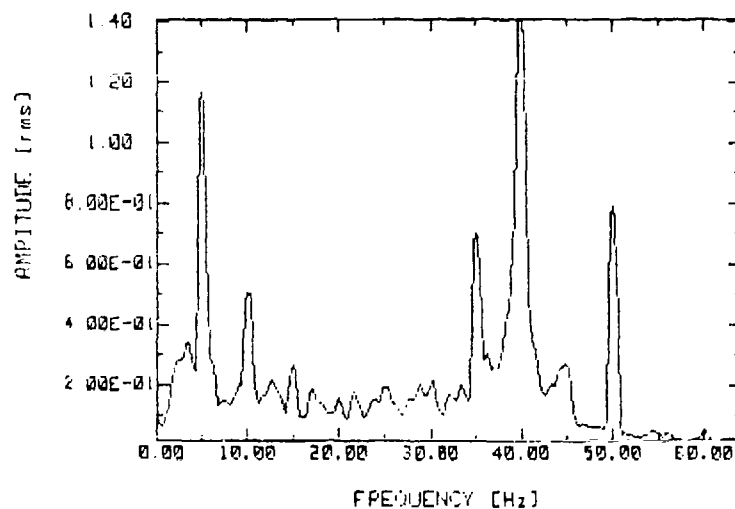
A SPEC 1 DELT_3106

#AV: 10



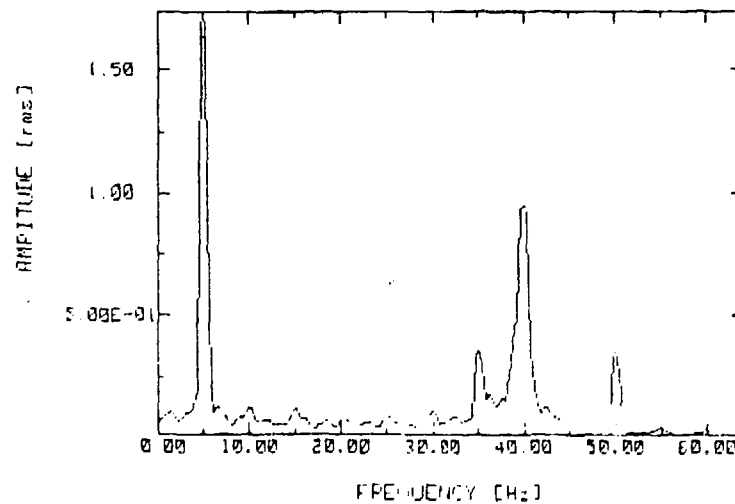
A SPEC 1 DELT_3109

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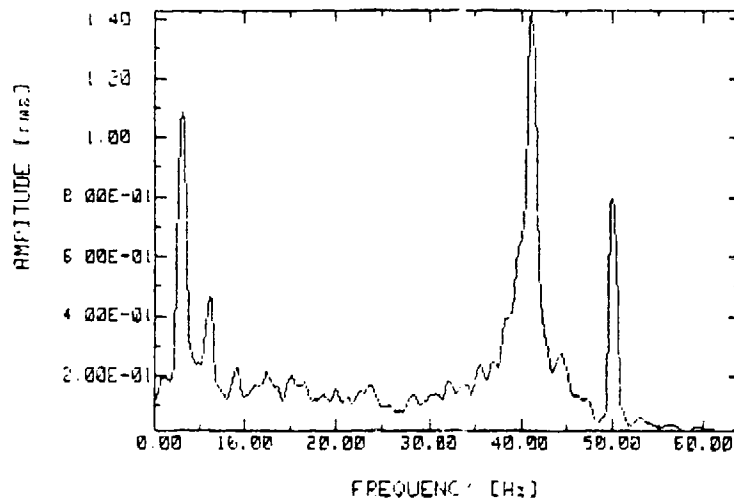
A SPEC 1 DELT_3110

#AV: 10



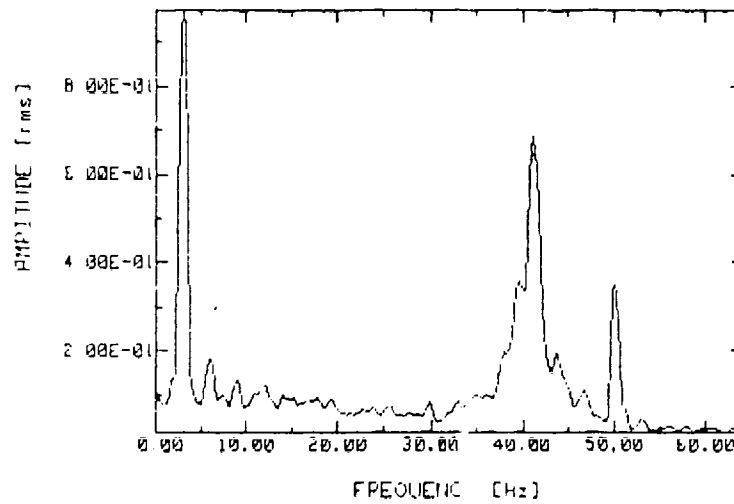
A SPEC 1 DELT_3117

#RV: 10



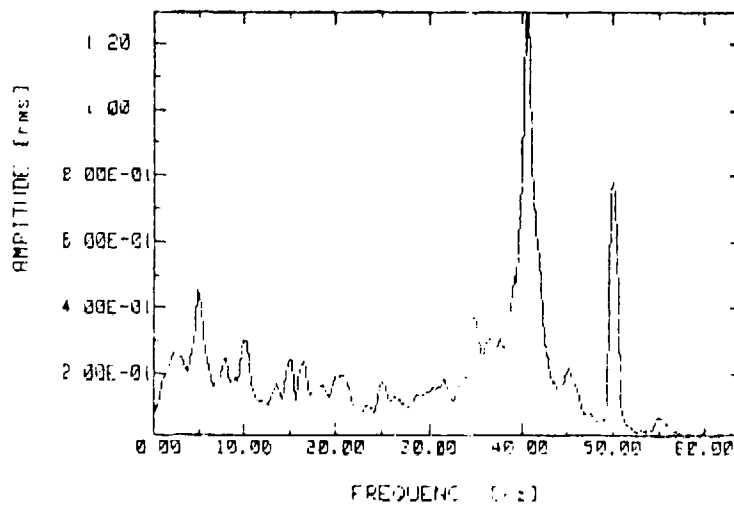
A SPEC 1 DELT_3118

#RV: 10



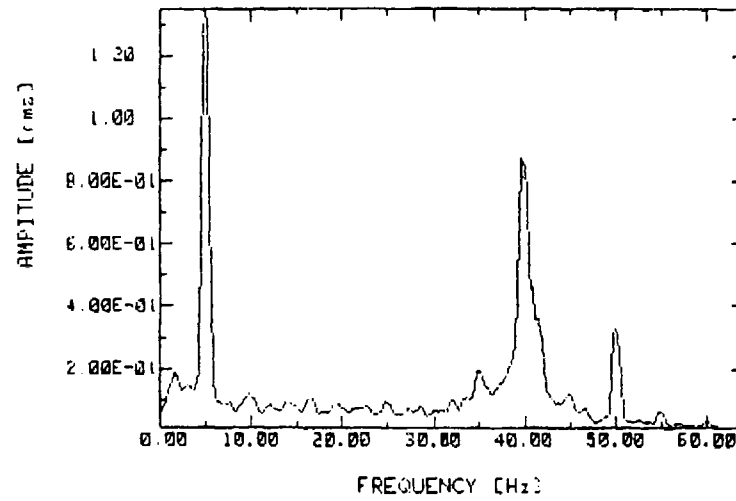
A SPEC 1 DELT_3127

#RV: 10



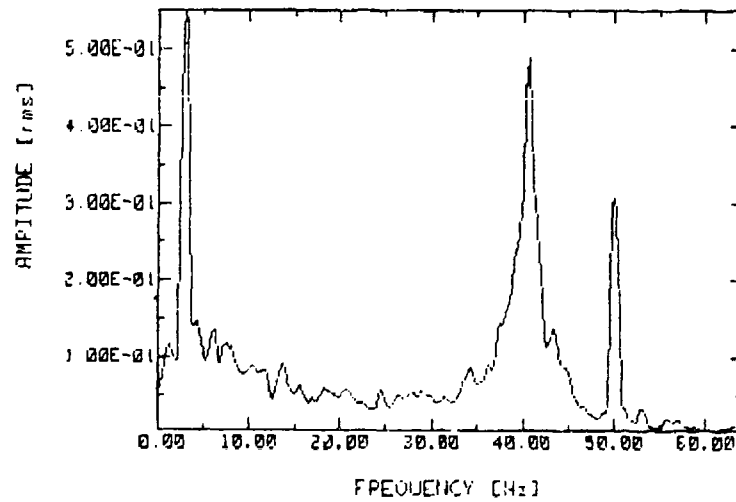
R SPEC 1 DELT_3128

#AV: 10



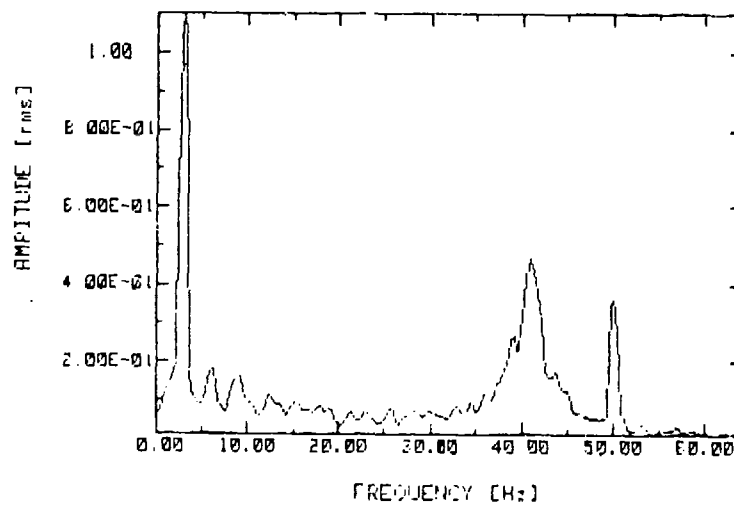
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#AV: 10



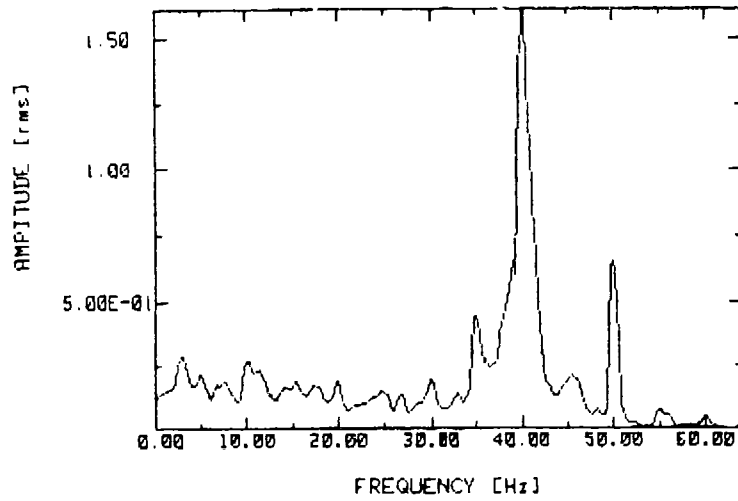
R SPEC 1 DELT_3138

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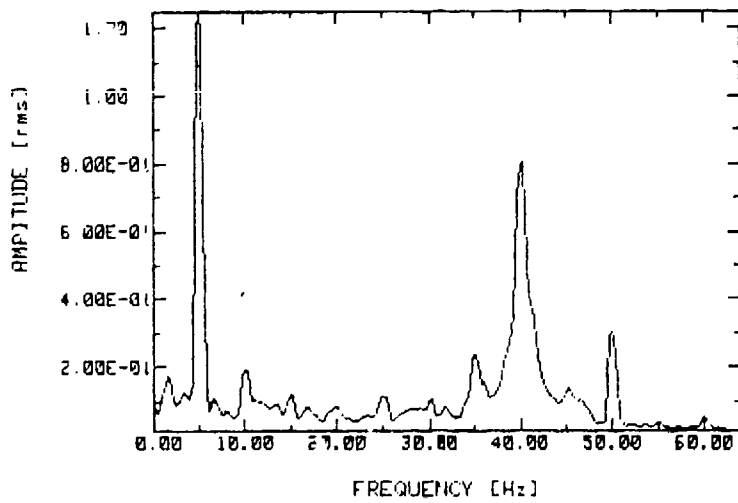
A SPEC 1 DELT_3145

#AV: 10



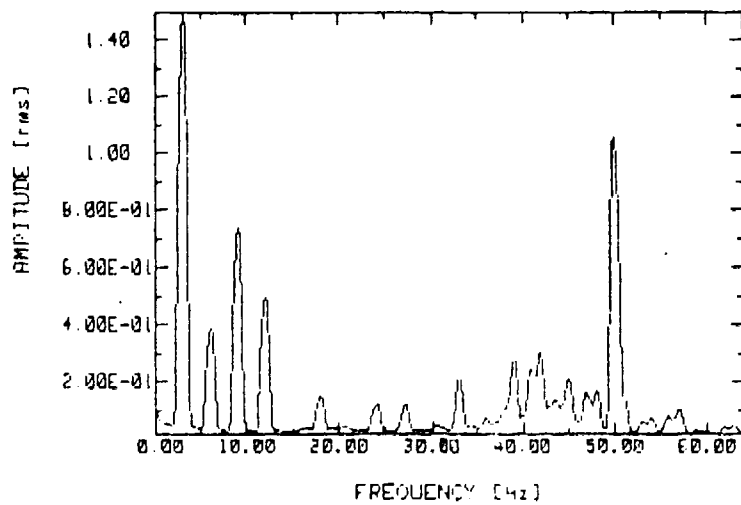
A SPEC 1 DELT_3146

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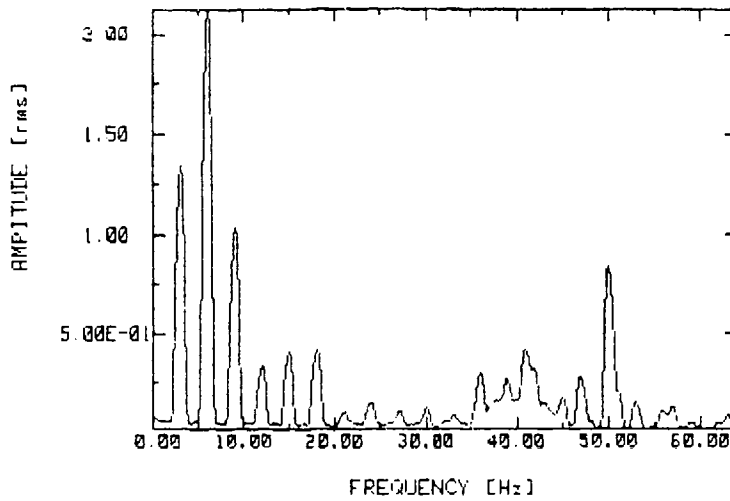
A SPEC 1 DELT_3202

#AV: 10



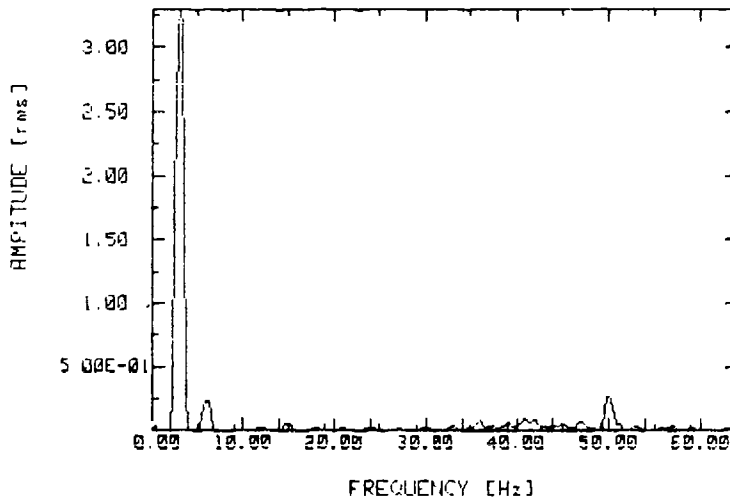
A SPEC 1 DELT_3203

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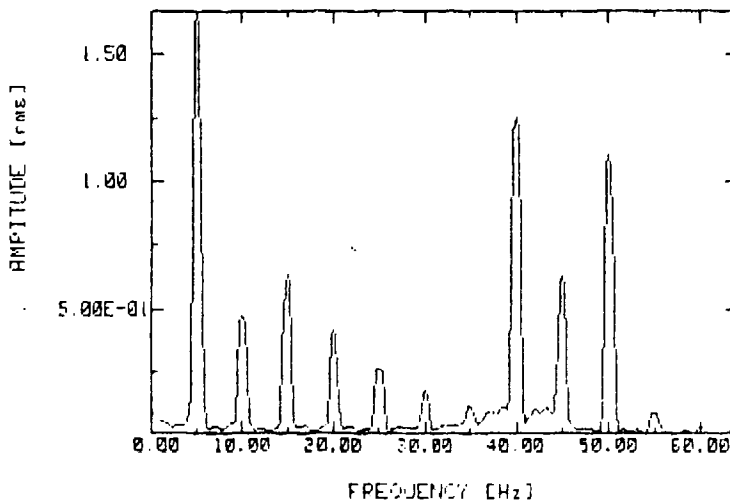
A SPEC 1 DELT_3204

#RV: 10



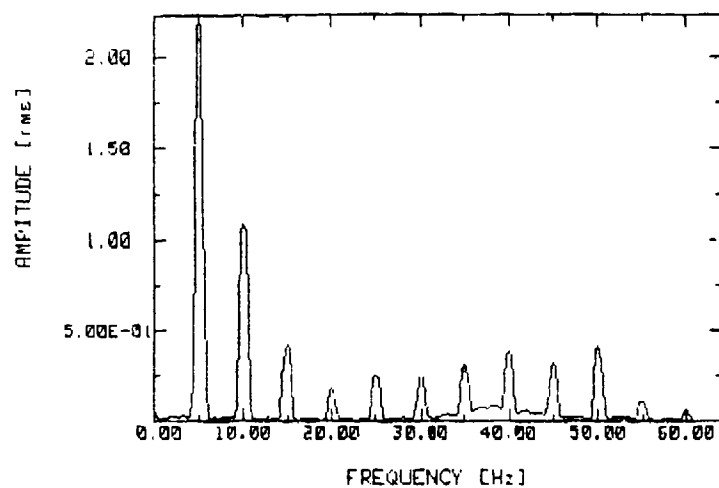
A SPEC 1 DELT_3207

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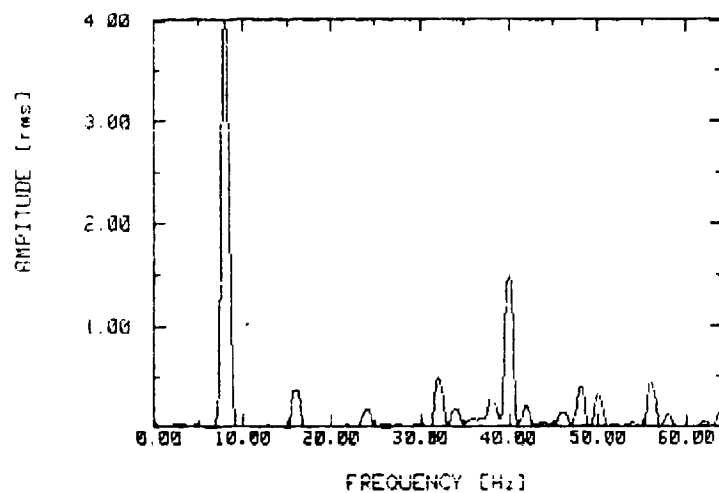
A SPEC 1 DELT_3200

#AV: 10



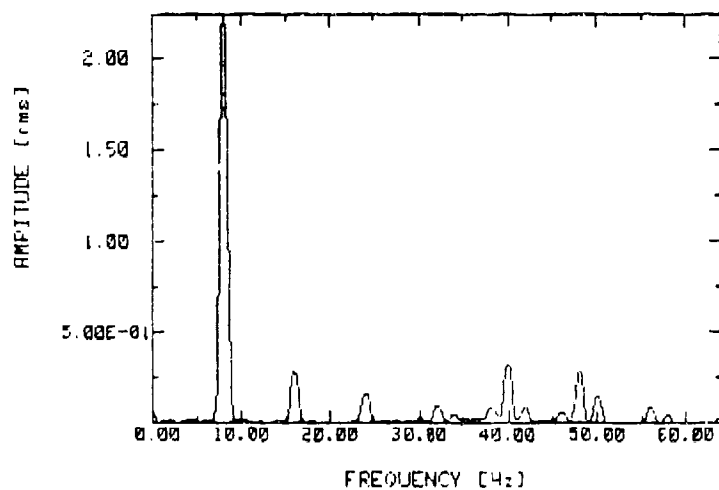
A SPEC 1 DELT_3211

#AV: 10



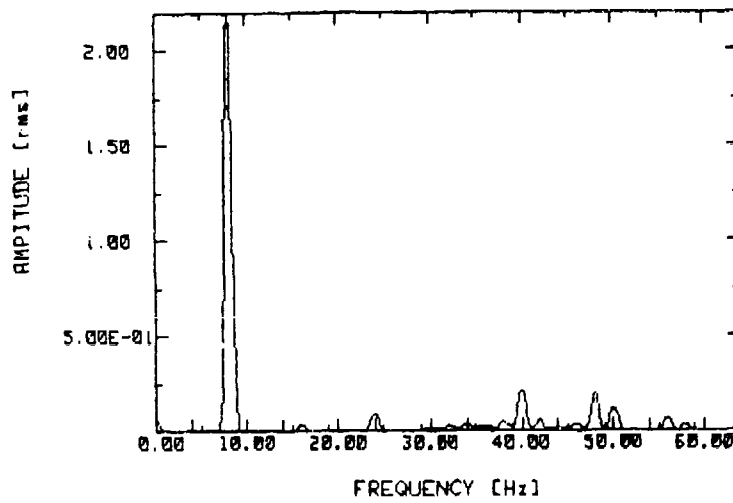
A SPEC 1 DELT_3243

#AV: 10



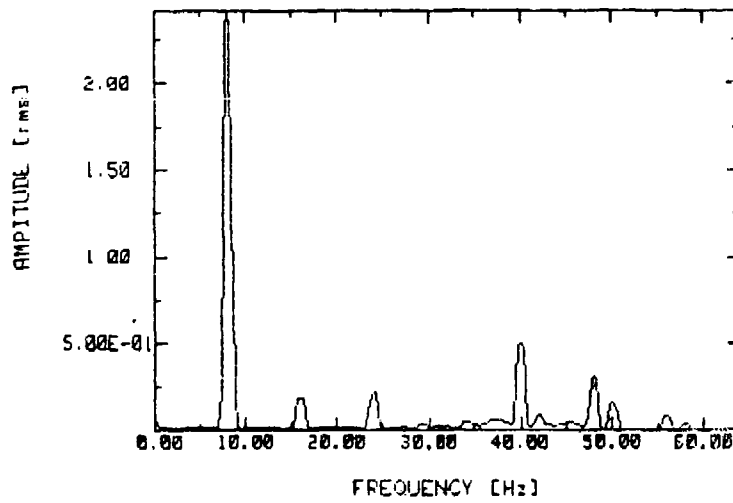
A SPEC 1 DELT_3244

#RV: 10



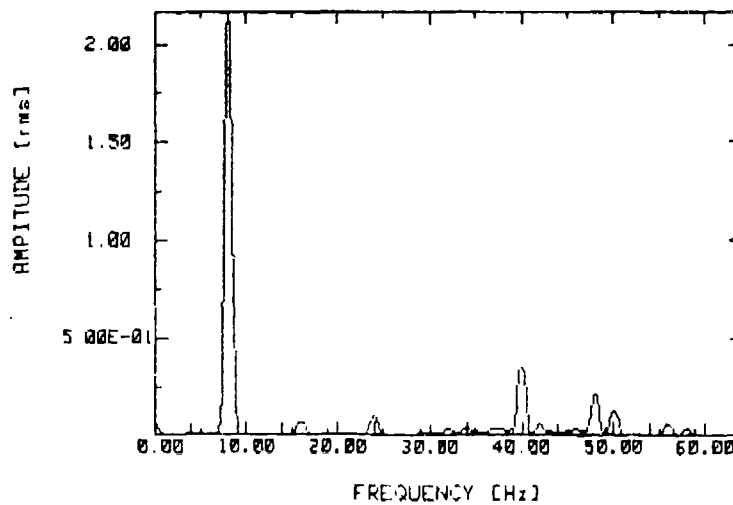
A SPEC 1 DELT_3255

#RV: 10



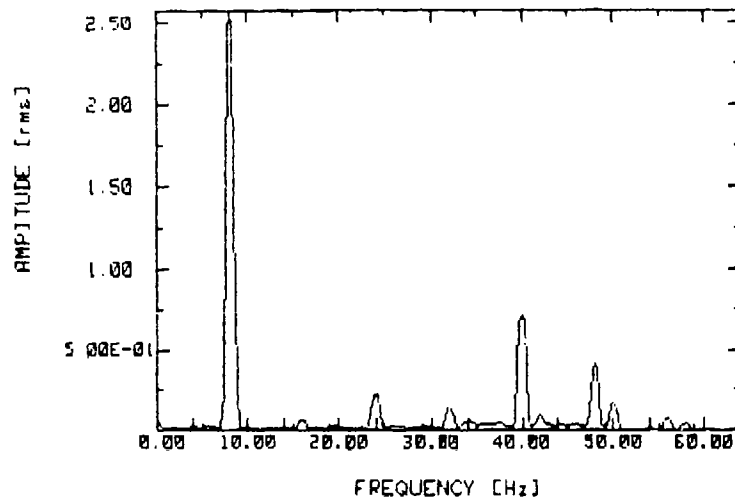
A SPEC 1 DELT_3256

#RV: 10



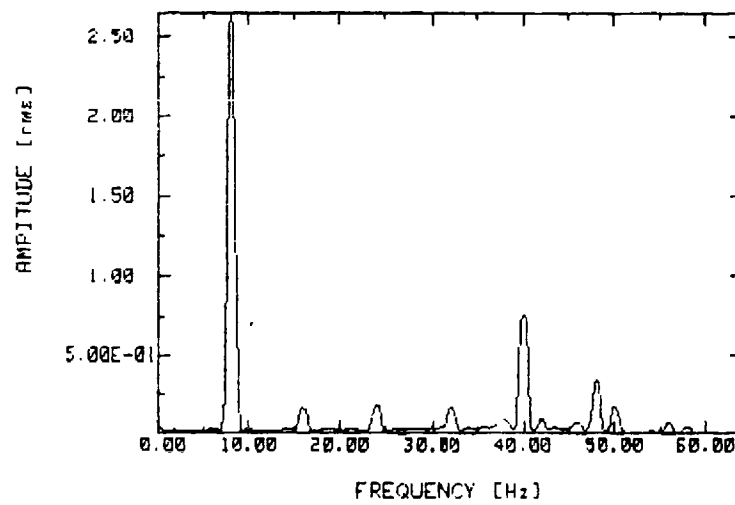
A SPEC 1 DELT_3270

#AV: 10



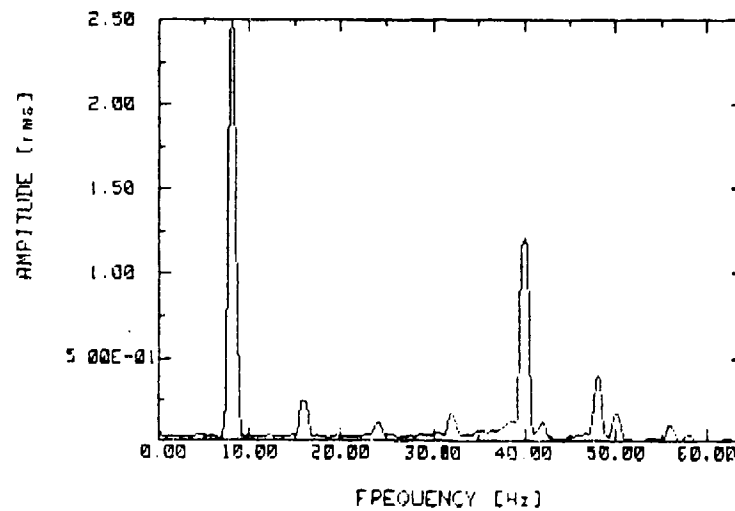
A SPEC 1 DELT_4104

#AV: 10



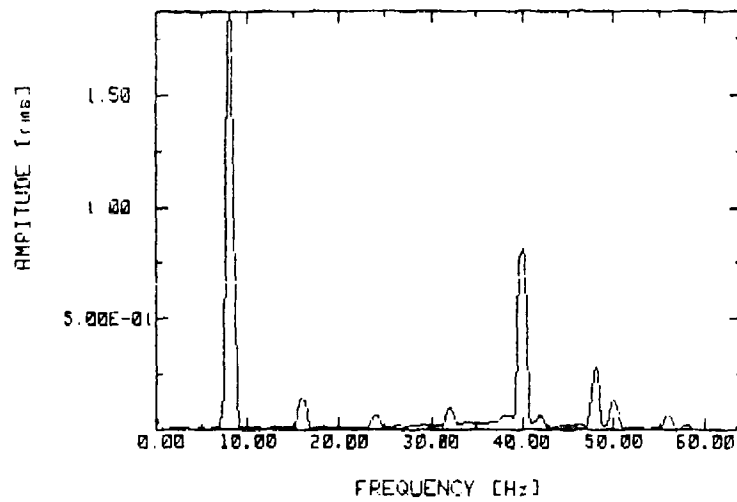
A SPEC 1 DELT_4110

#AV: 10



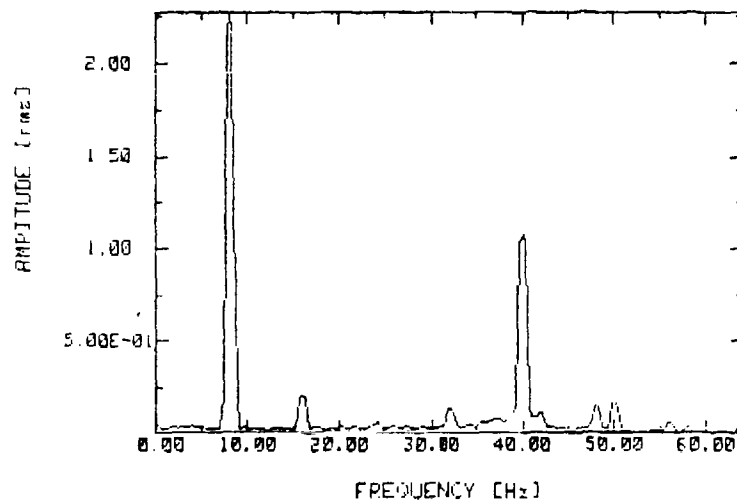
R SPEC 1 DELT_4111

#RV: 10



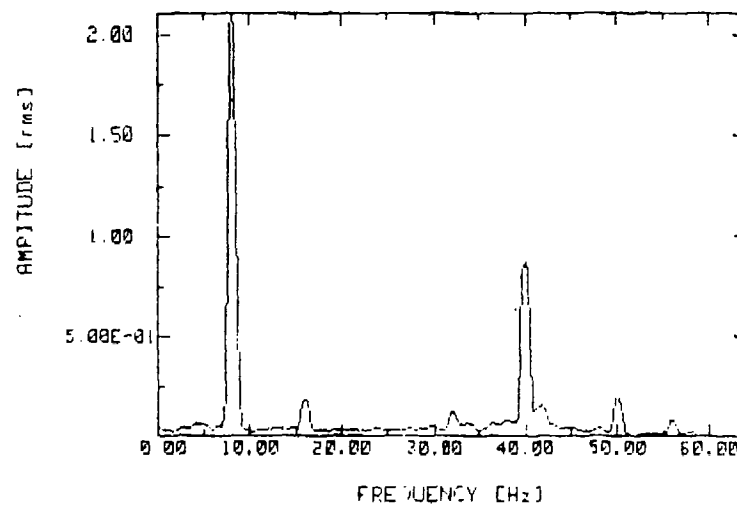
R SPEC 1 DELT_4117

#RV: 10



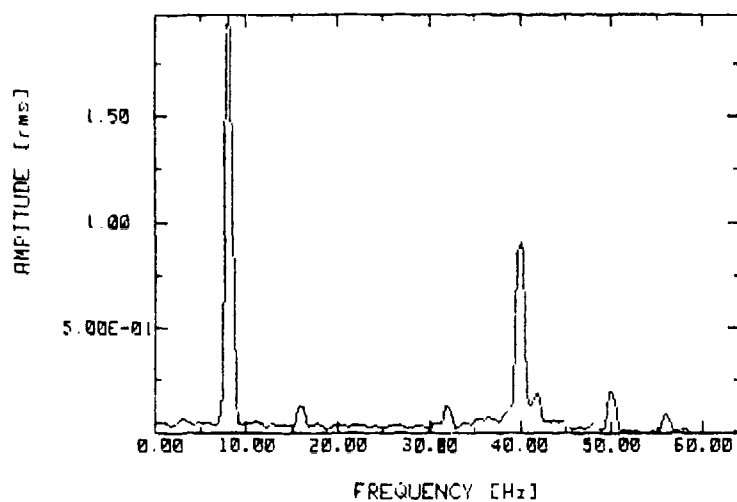
R SPEC 1 DELT_4123

#RV: 10



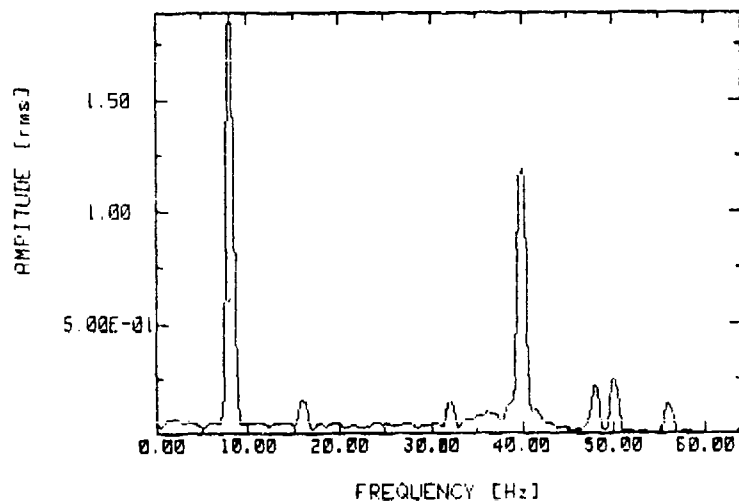
R SPEC 1 DELT_4129

#RV: 10



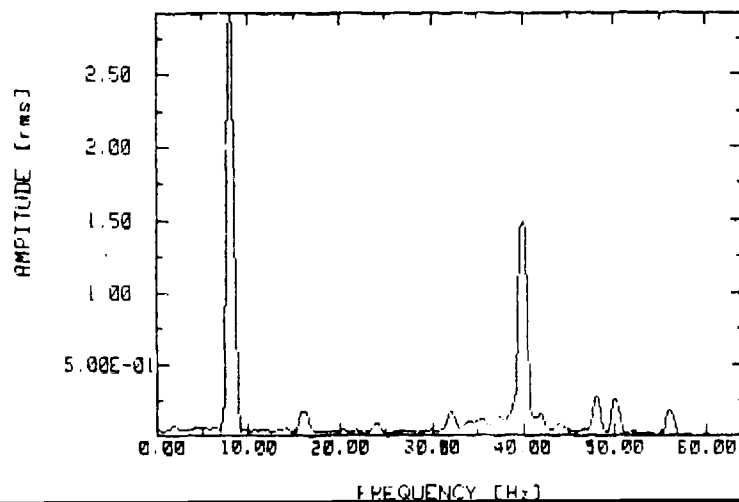
R SPEC 1 DELT_4149

#RV: 10



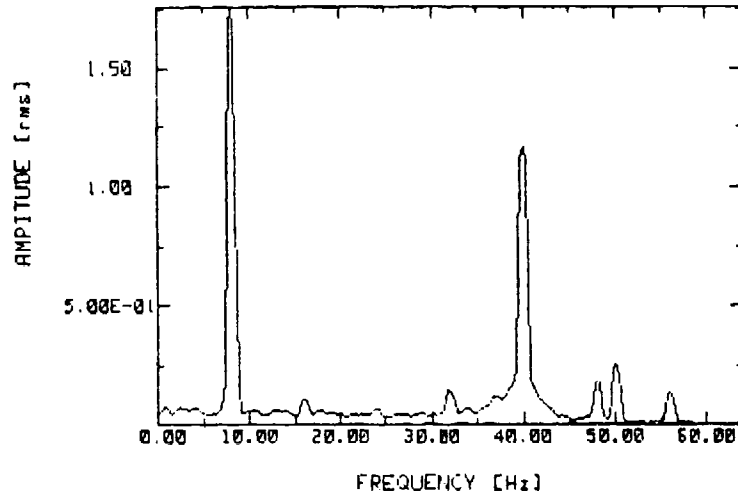
R SPEC 1 DELT_4150

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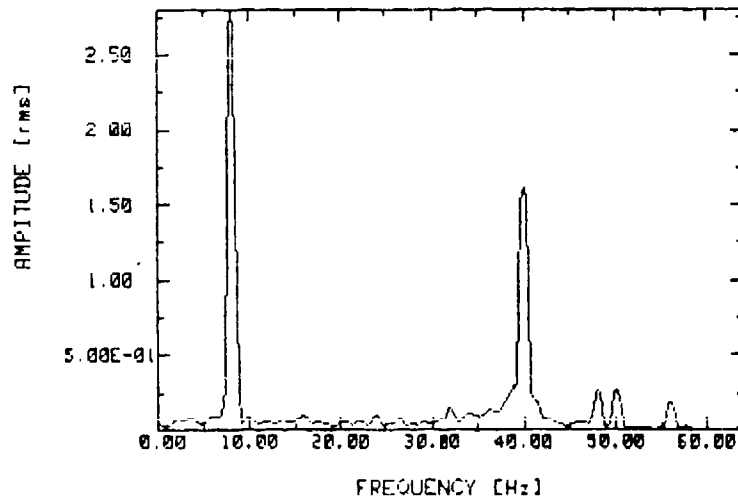
A SPEC 1 DELT_4161

#AV: 10



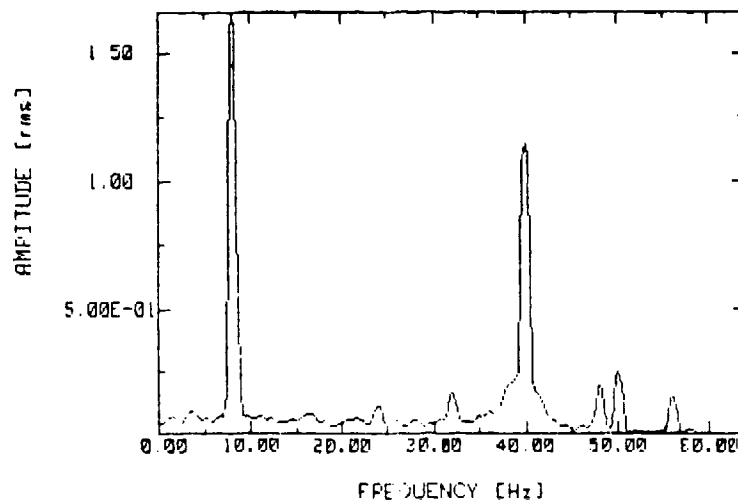
A SPEC 1 DELT_4162

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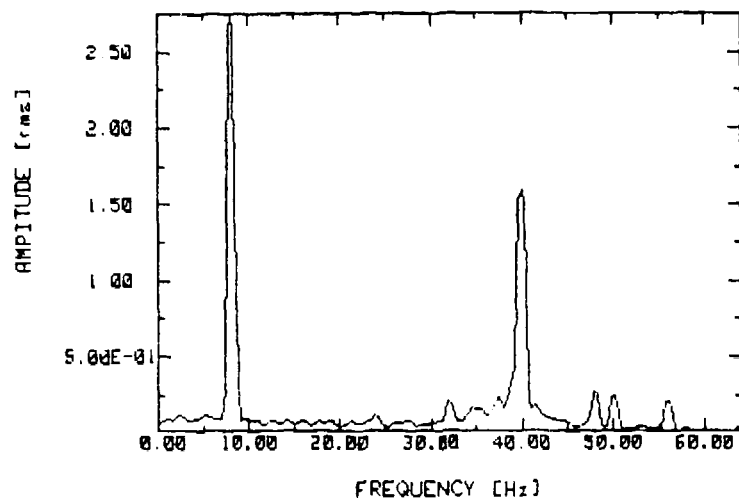
A SPEC 1 DELT_5115

#AV: 10



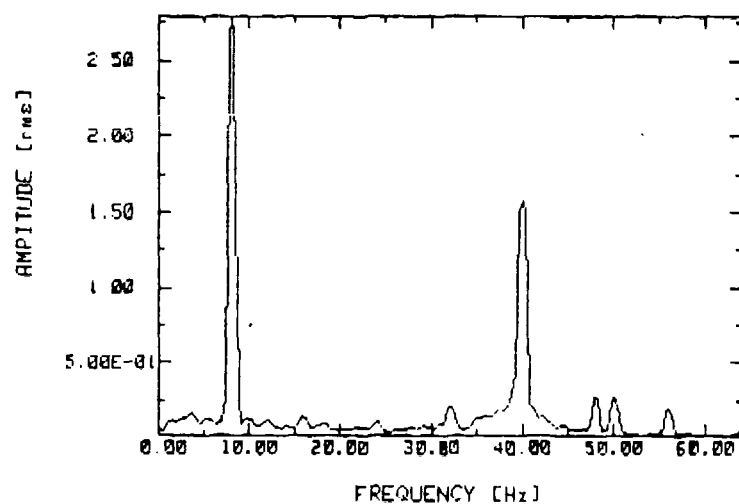
A SPEC 1 DELT_5116

#RV: 10



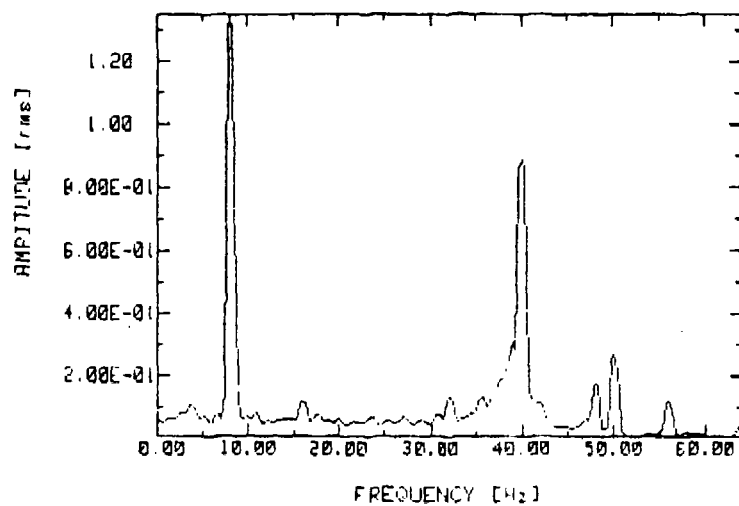
A SPEC 1 DELT_5132

#RV: 10



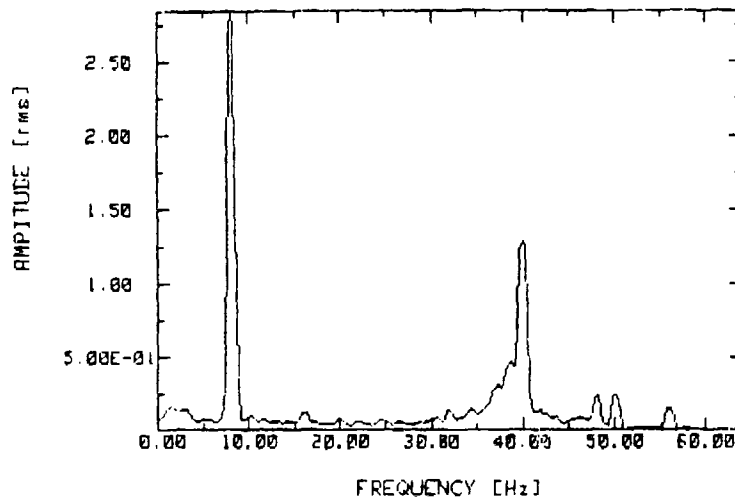
A SPEC 1 DELT_5155

#RV: 10



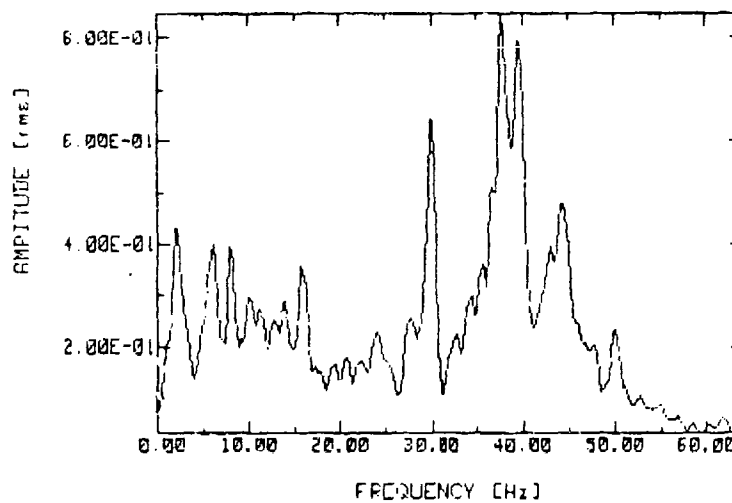
A SPEC 1 DELT_5156

#RV: 10



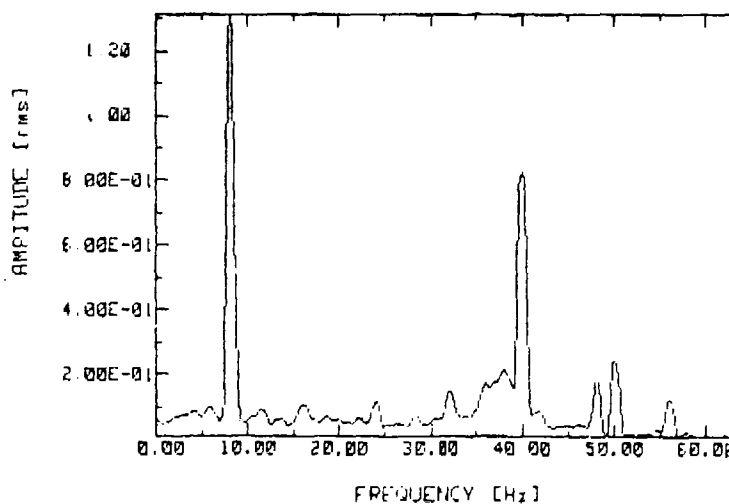
A SPEC 1 DELT_5157

#RV: 10



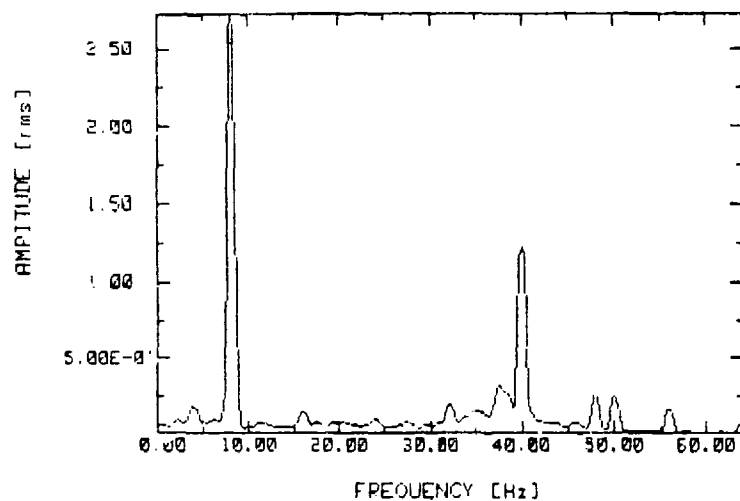
A SPEC 1 DELT_5160

#RV: 10



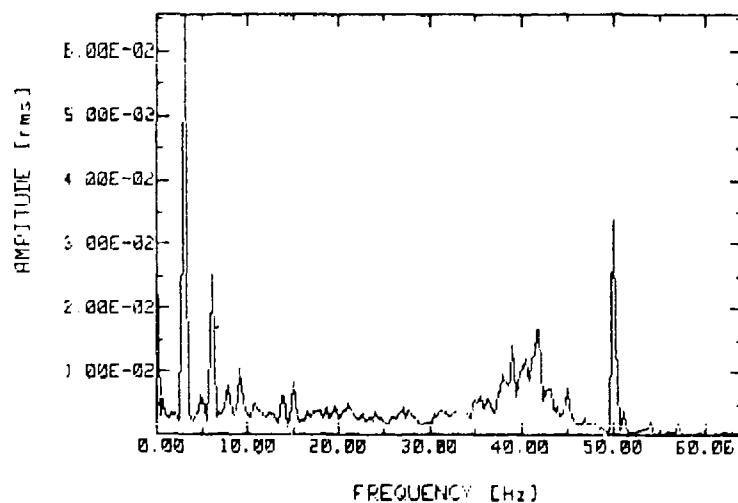
A SPEC 1 DELT_5169

#RV: 10



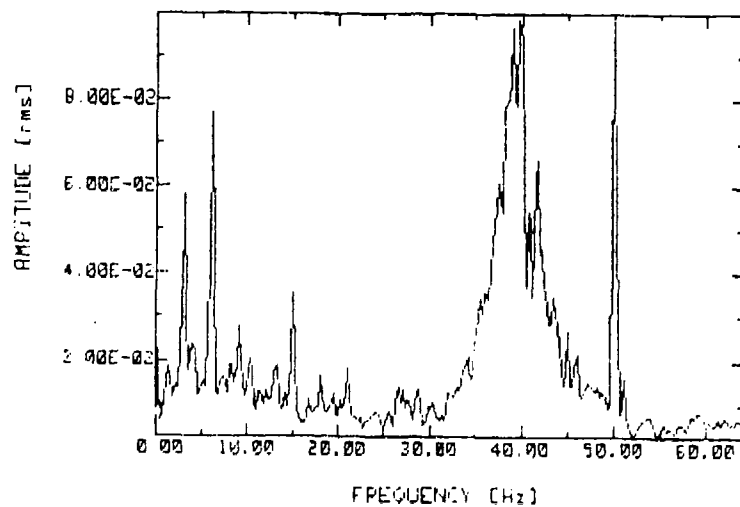
A SPEC 2 DELT_5240

#RV: 10



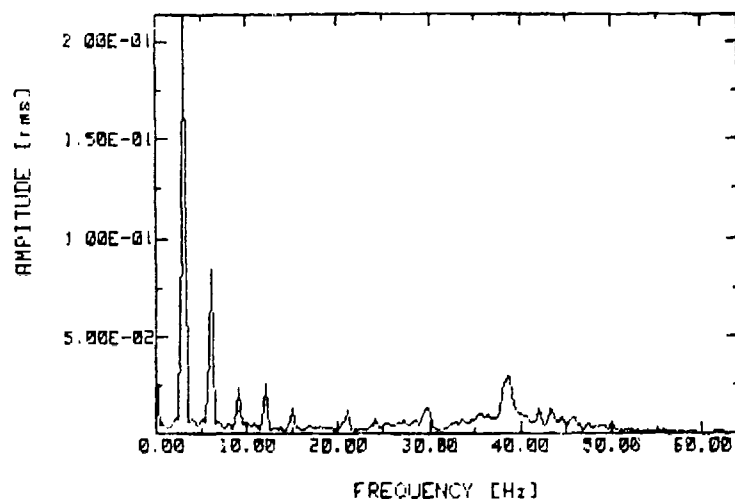
A SPEC 2 DELT_5241

#RV: 10



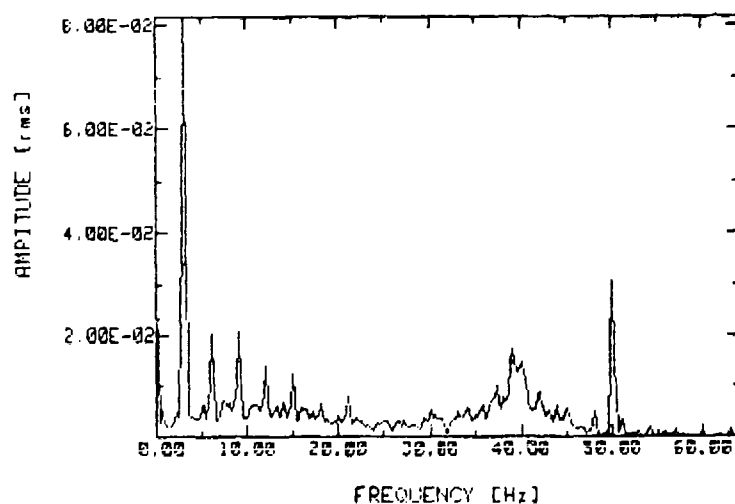
A SPEC 2 DELT_5242

#AV: 10



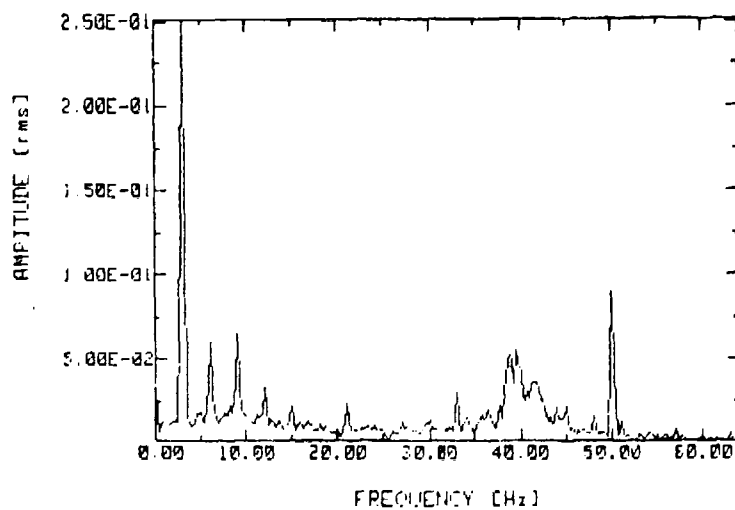
A SPEC 2 DELT_5243

#AV: 10



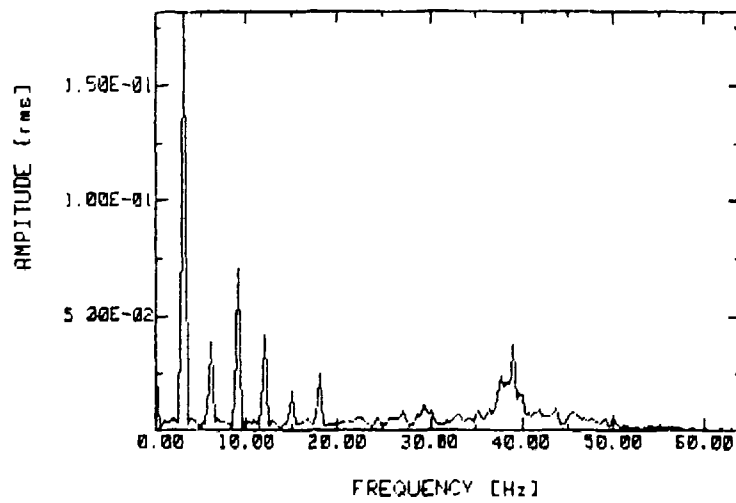
A SPEC 2 DELT_5244

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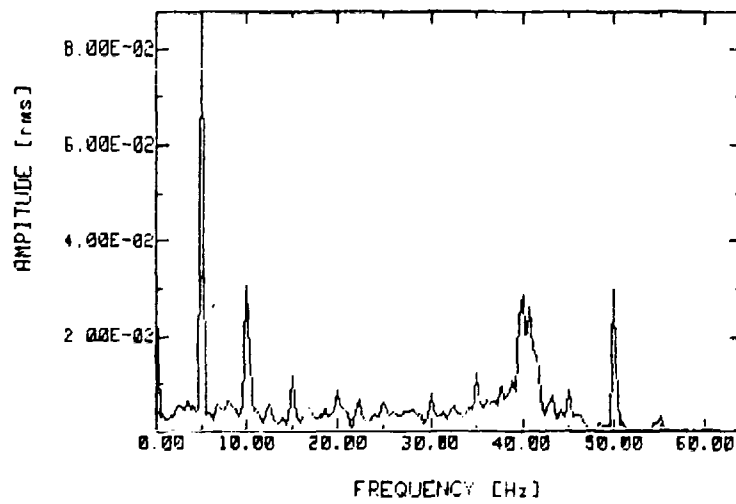
A SPEC 2 DELT_5245

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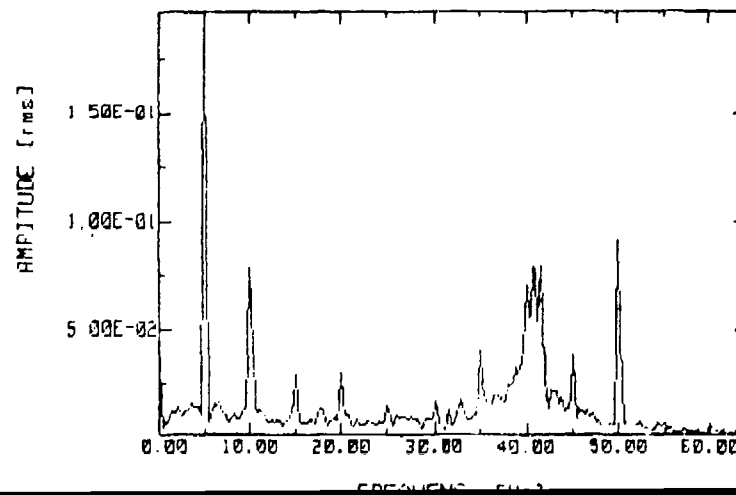
A SPEC 2 DELT_5249

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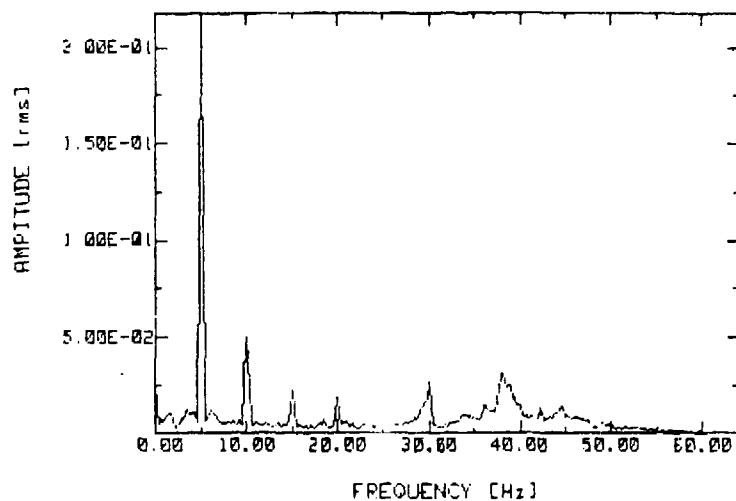
A SPEC 2 DELT_5250

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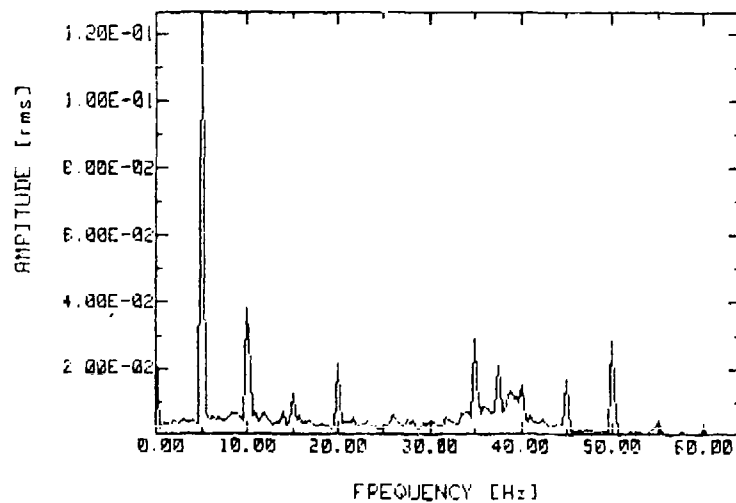
A SPEC 2 DELT_5251

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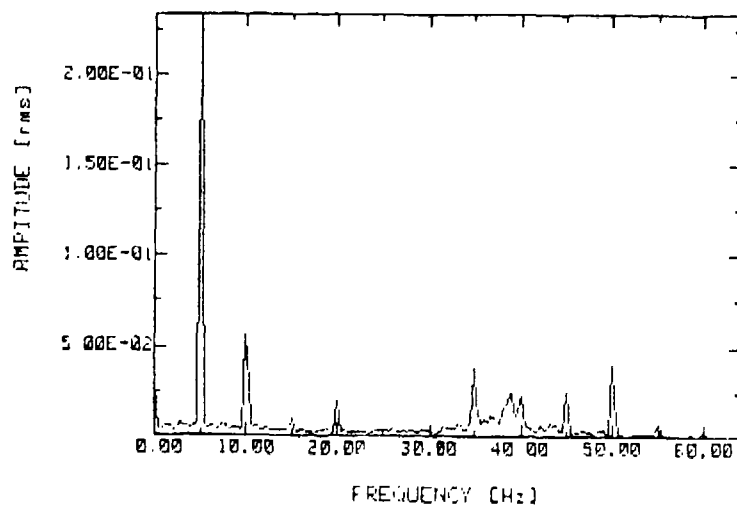
A SPEC 2 DELT_5252

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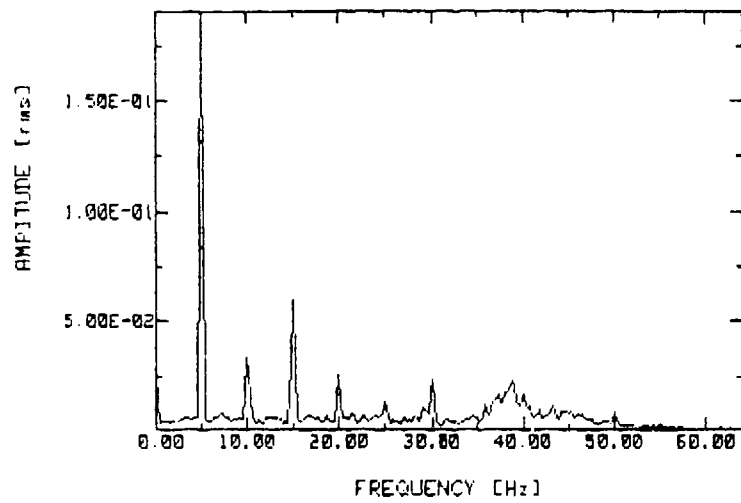
A SPEC 2 DELT_5253

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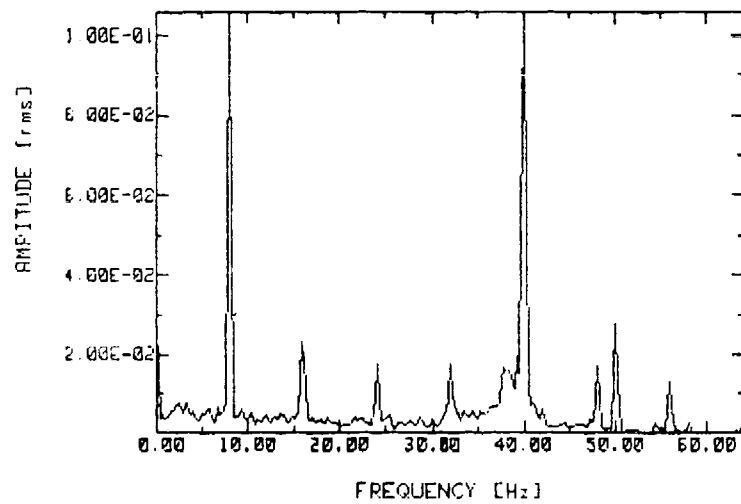
A SPEC 2 DELT_5254

#RV: 10



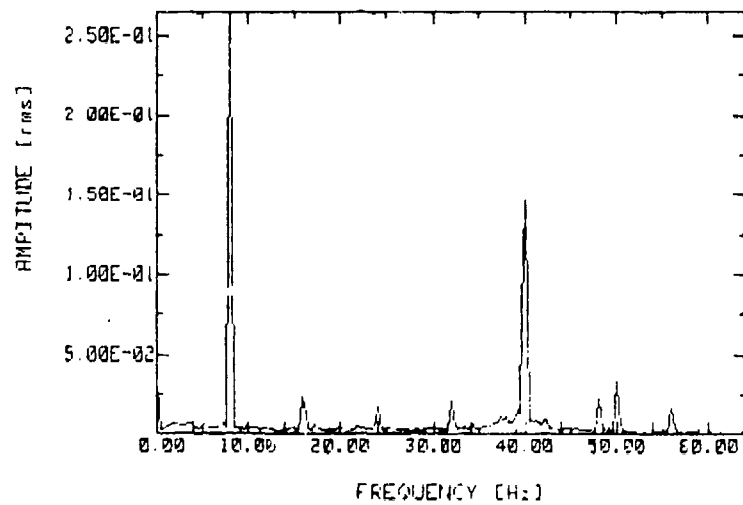
A SPEC 2 DELT_5261

#RV: 10



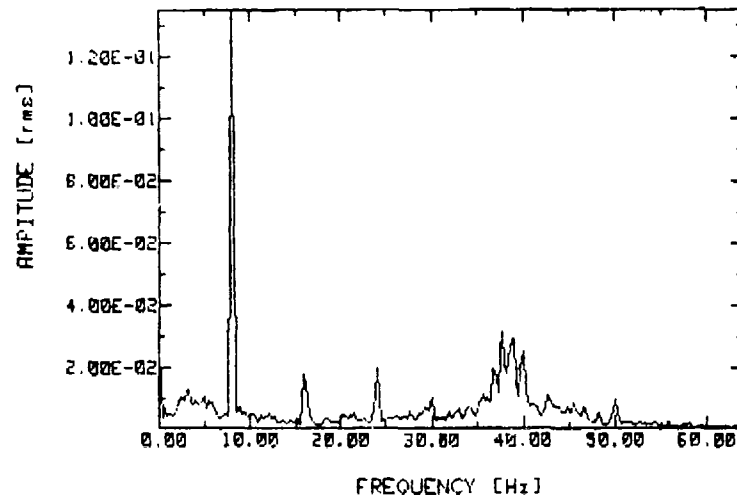
A SPEC 2 DELT_5262

#RV: 10



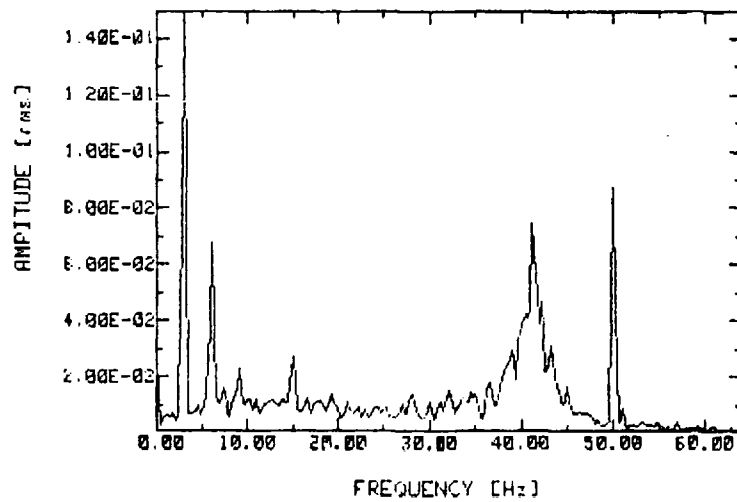
A SPEC 2 DELT_5269

#AV: 10



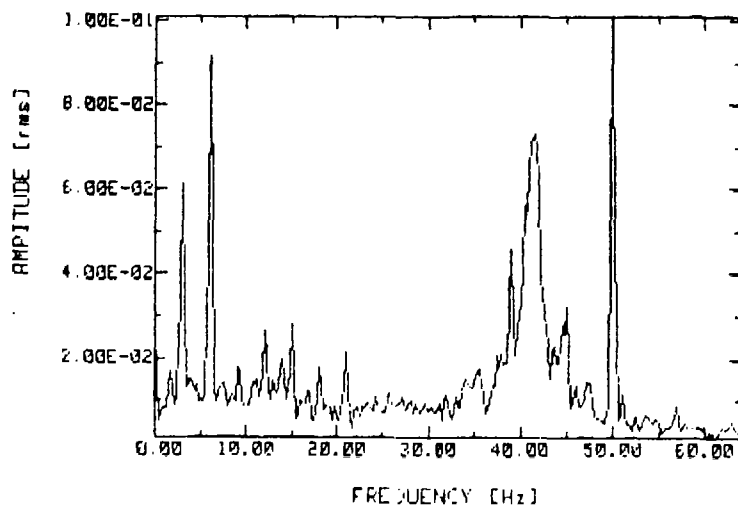
A SPEC 2 DELT_5270

#AV: 10



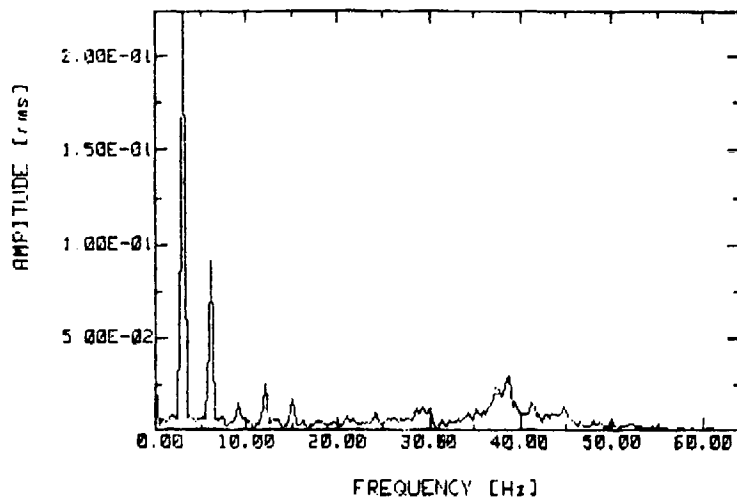
A SPEC 2 DELT_5271

#AV: 10



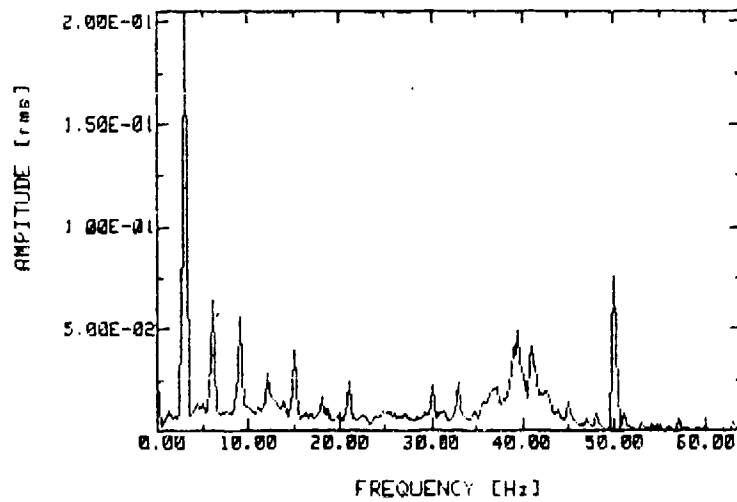
A SPEC 2 DELT_5272

#RV: 10



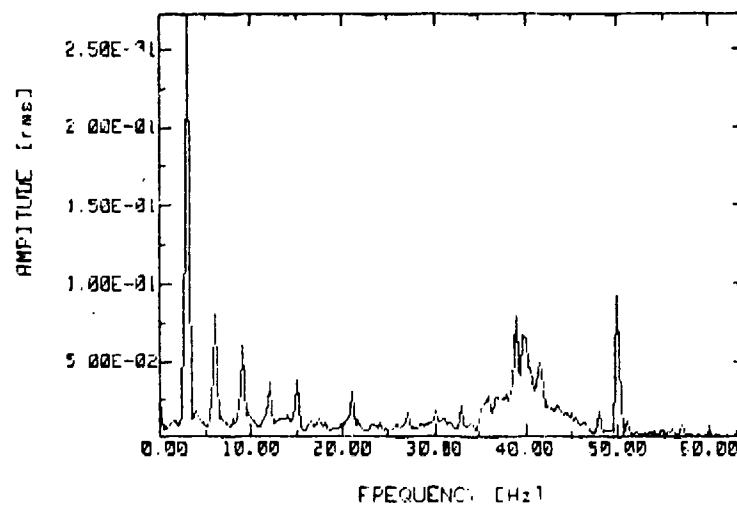
A SPEC 2 DELT_5273

#RV: 10



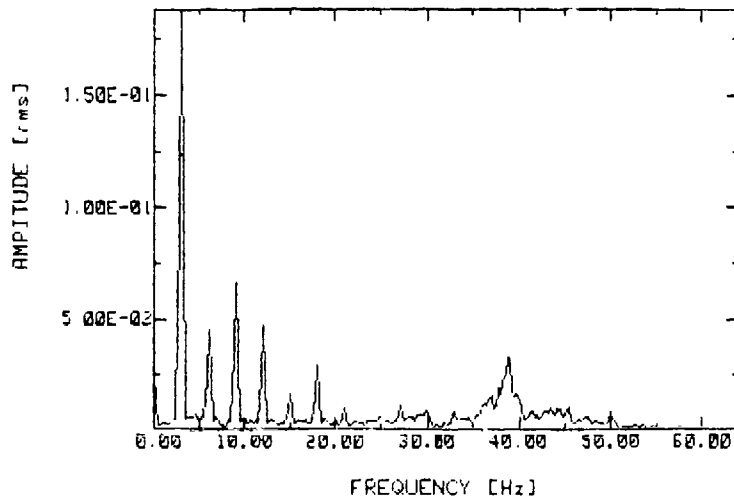
A SPEC 2 DELT_5274

#RV: 10



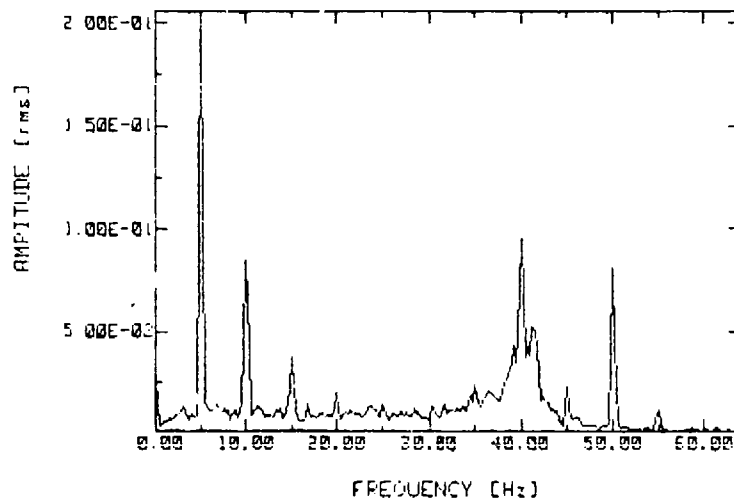
A SPEC 2 DELT_6201

#AV: 10



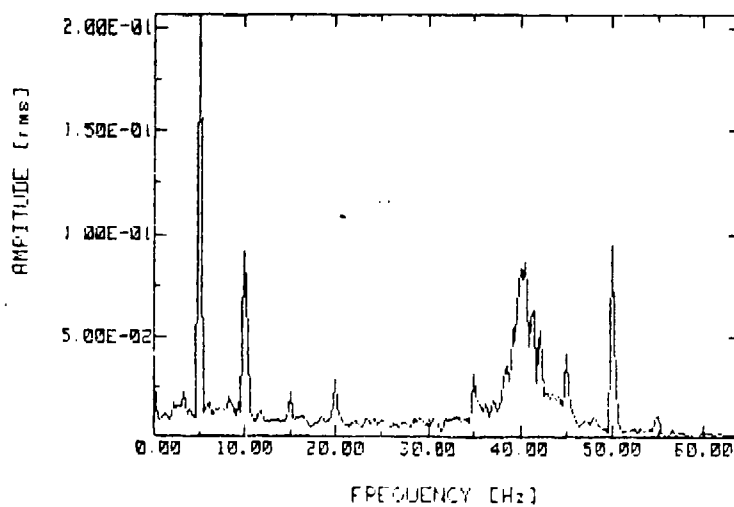
A SPEC 2 DELT_6205

#AV: 10



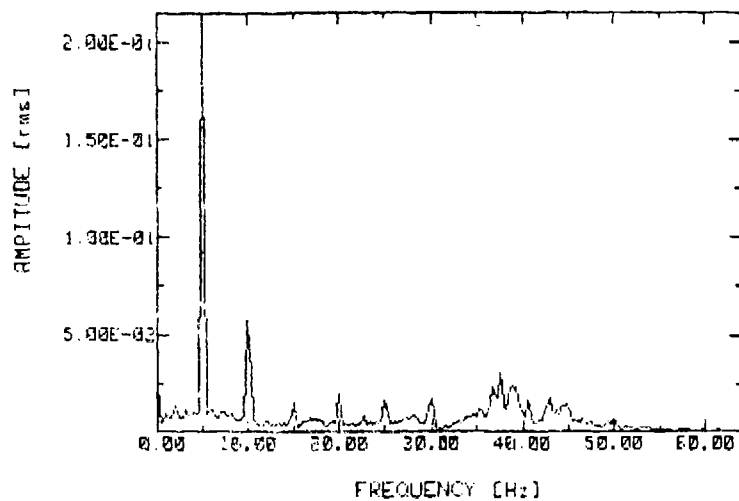
A SPEC 2 DELT_6206

#AV: 10



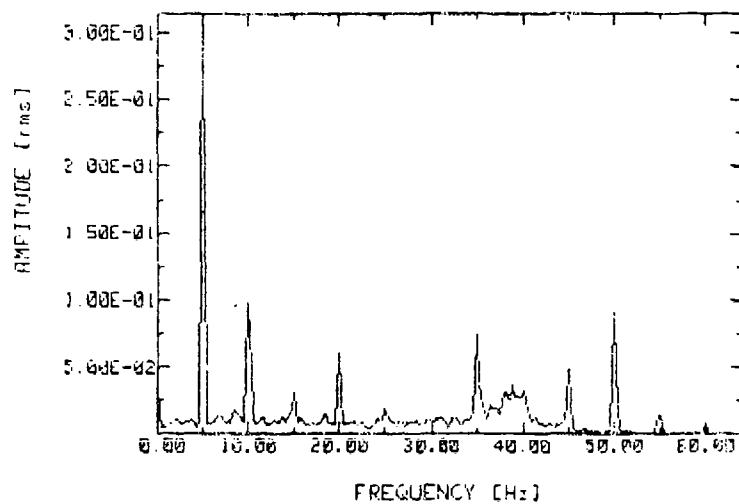
A SPEC 2 DELT_6207

#RV: 10



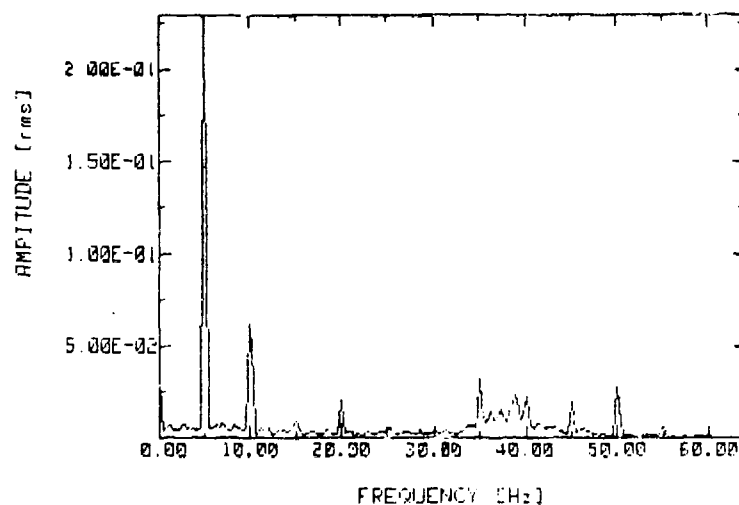
A SPEC 2 DELT_6200

#RV: 10



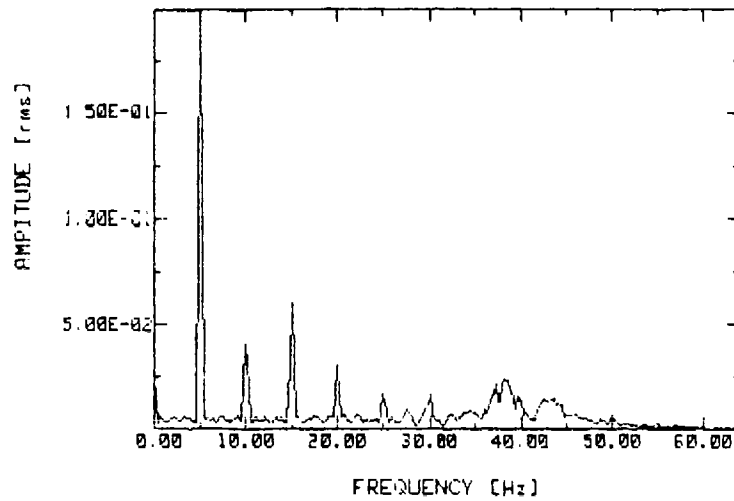
A SPEC 2 DELT_6209

#RV: 10



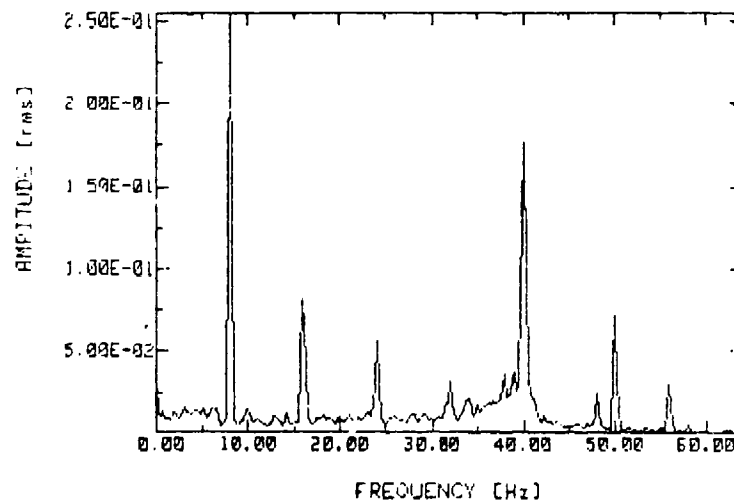
A SPEC 2 DELT_6210

#AV: 10



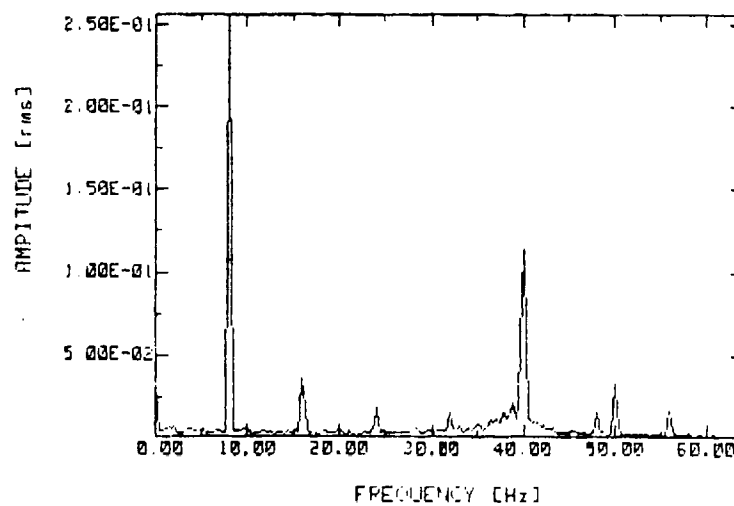
A SPEC 2 DELT_6217

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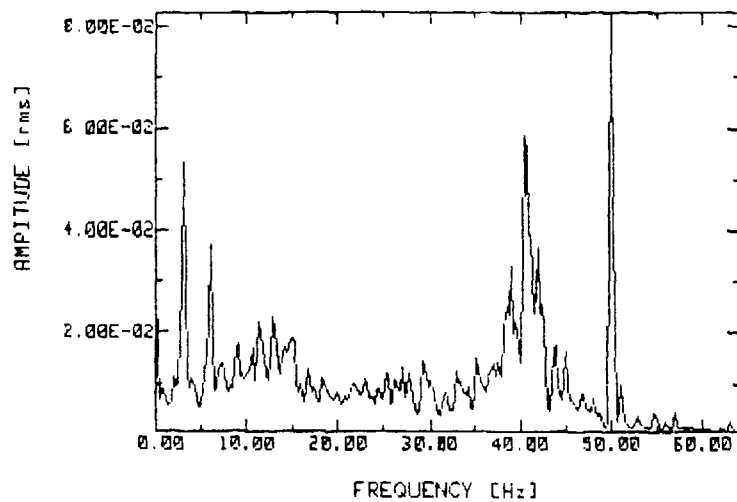
A SPEC 2 DELT_6210

#AV: 10



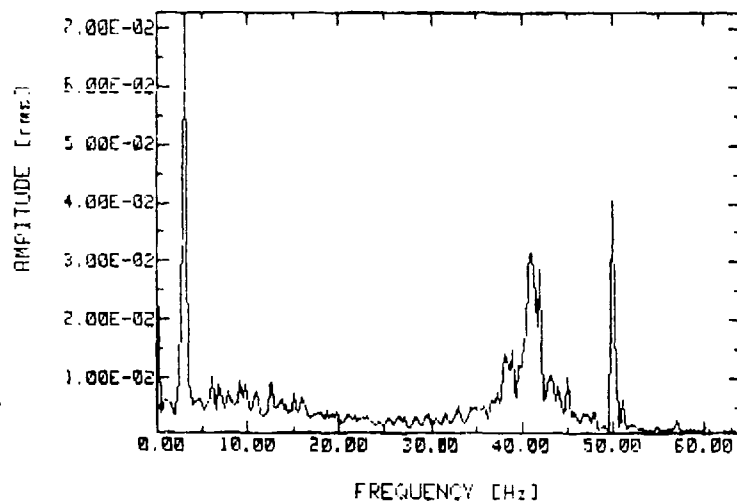
R SPEC 2 DELT_6225

#RV: 10



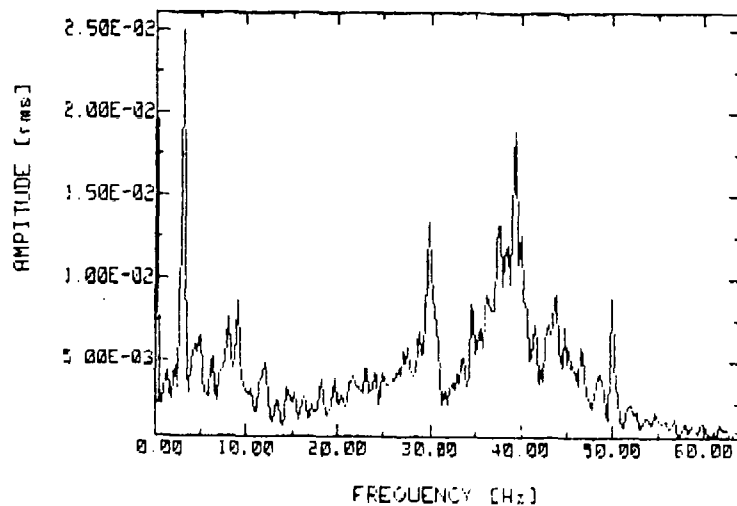
R SPEC 2 DELT_6226

#RV: 10



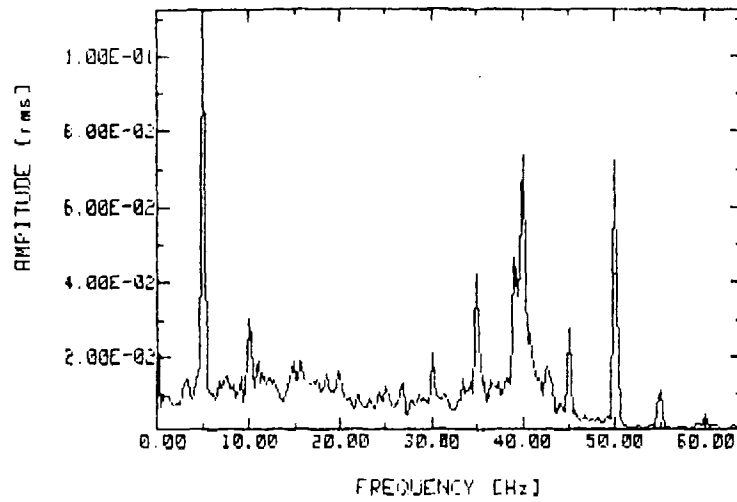
R SPEC 2 DELT_6227

#RV: 10



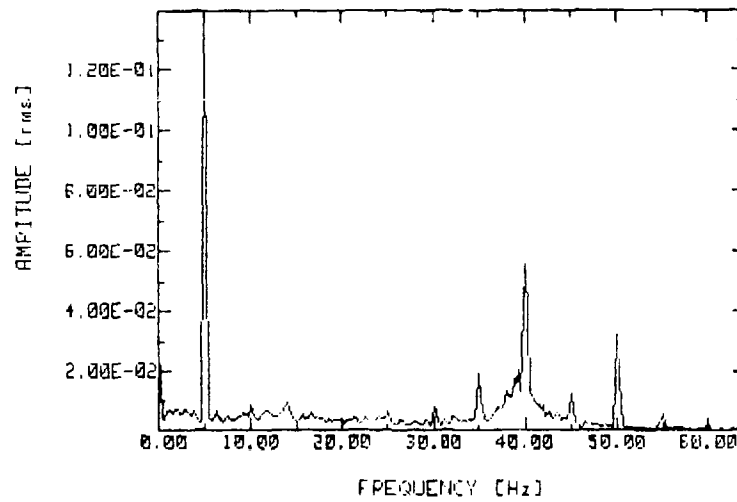
A SPEC 2 DELT_6233

#RV: 10



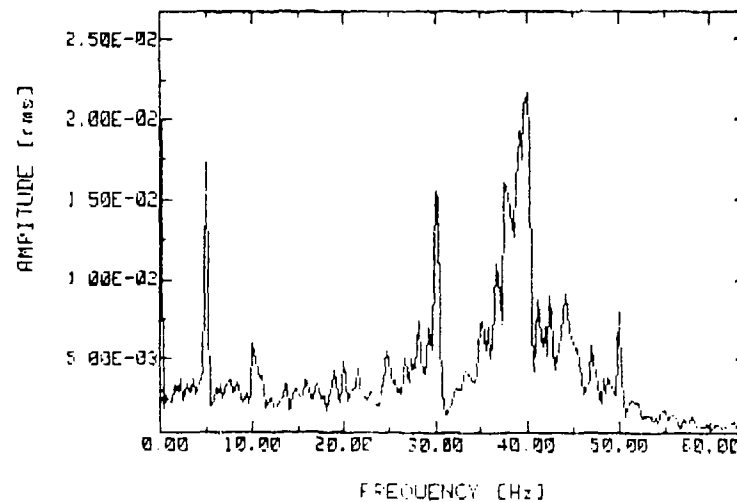
A SPEC 2 DELT_6234

#RV: 10



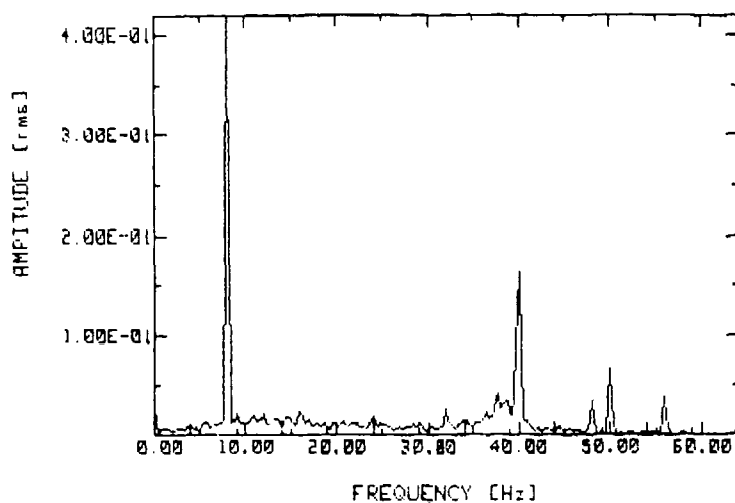
A SPEC 2 DELT_6235

#RV: 10



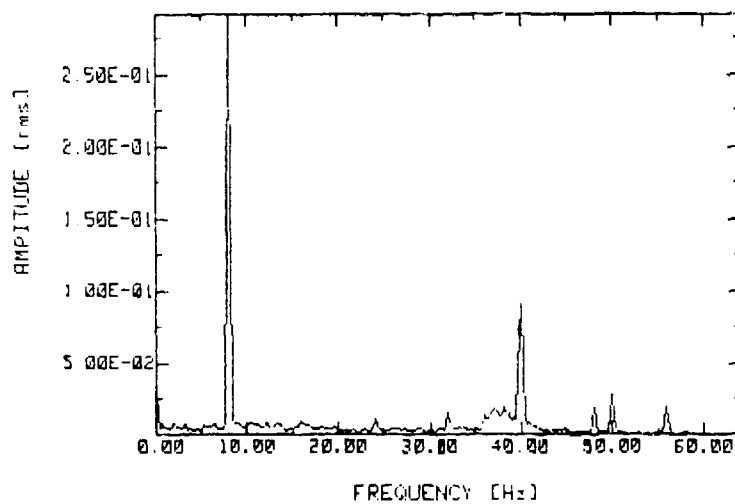
A SPEC 2 DELT_6242

#RV: 10



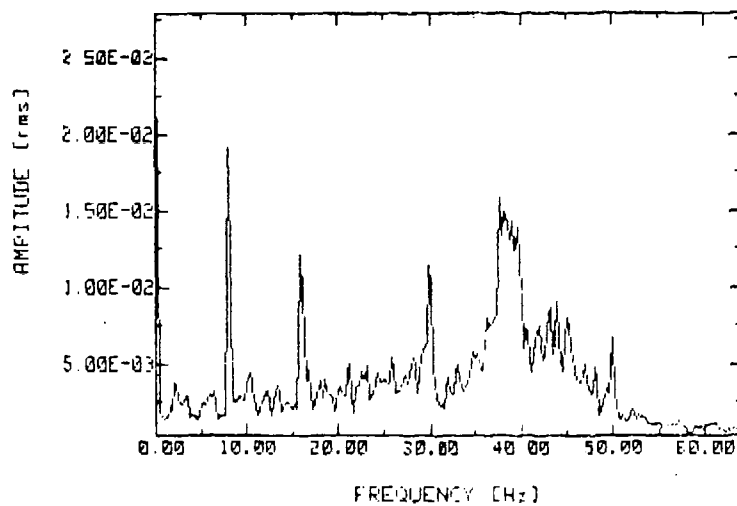
A SPEC 2 DELT_6243

#RV: 10



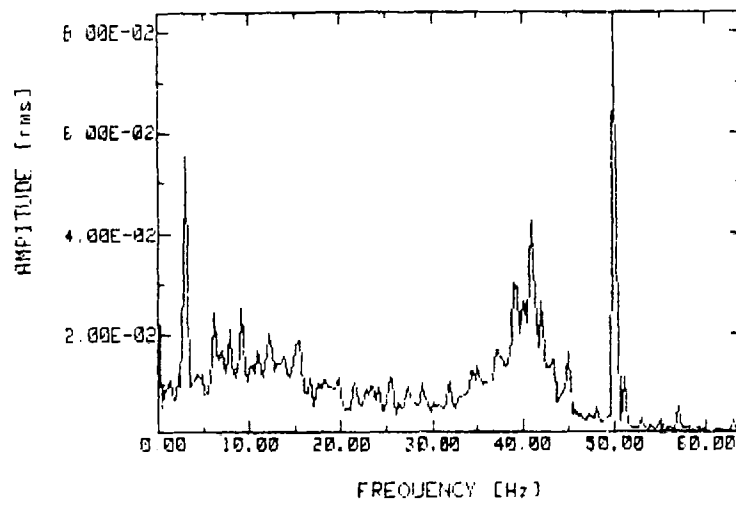
A SPEC 2 DELT_6244

#RV: 10



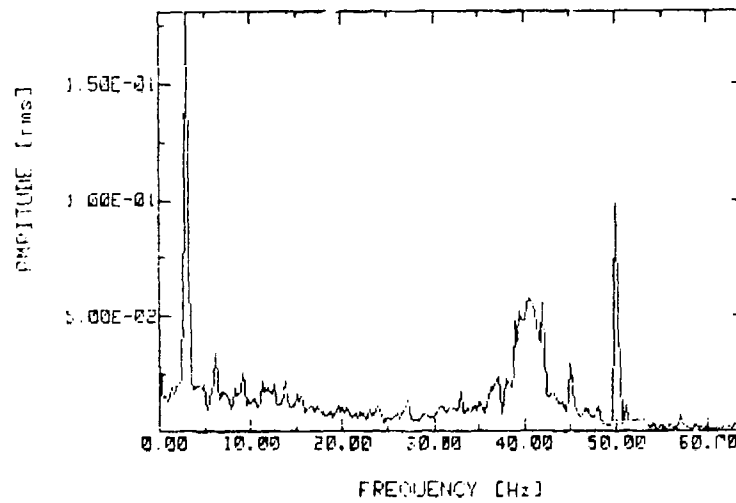
R SPEC 2 DELT_6251

#RV: 10



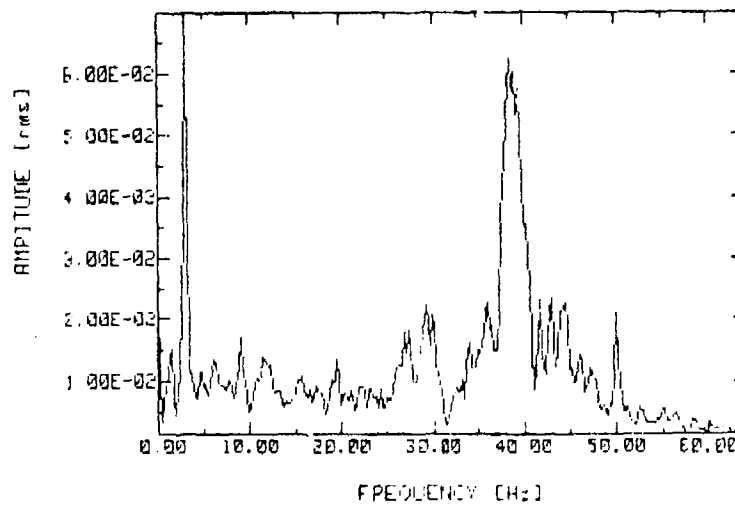
R SPEC 2 DELT_6252

#RV: 10



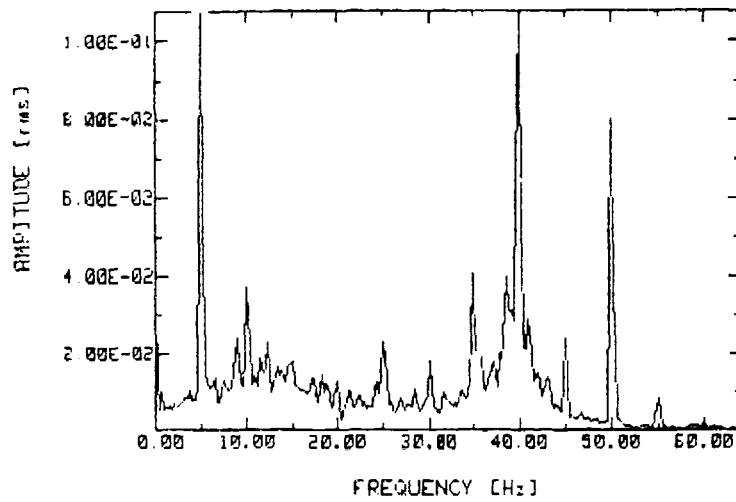
R SPEC 2 DELT_6253

#RV: 10



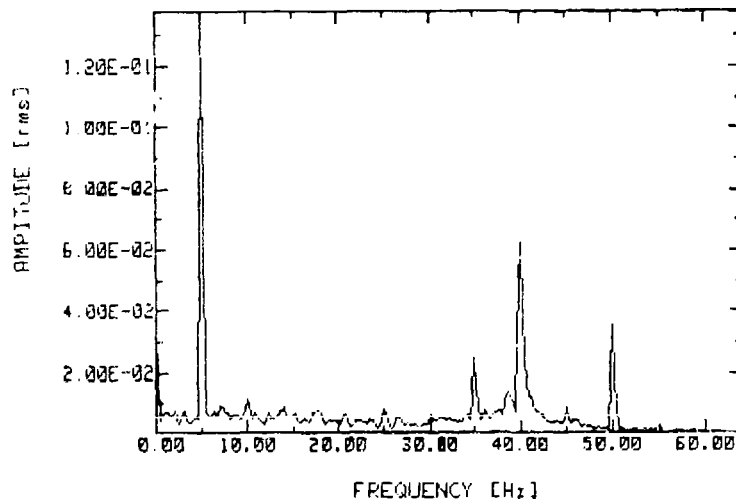
A SPEC 2 DELT_6257

#AV: 10



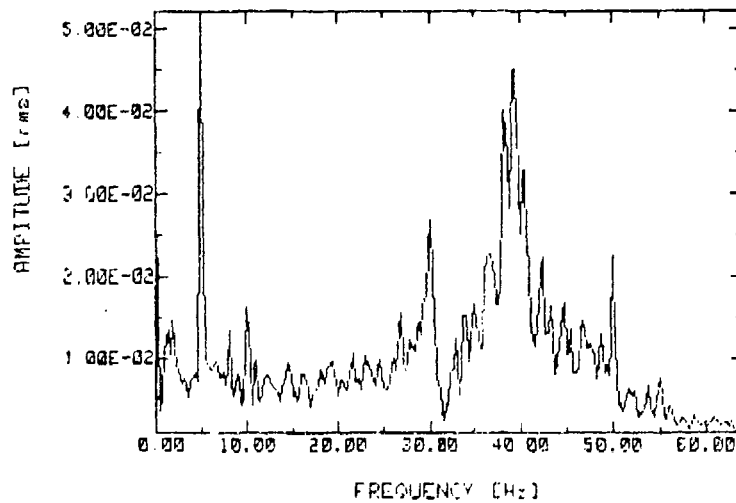
A SPEC 2 DELT_6258

#AV: 10



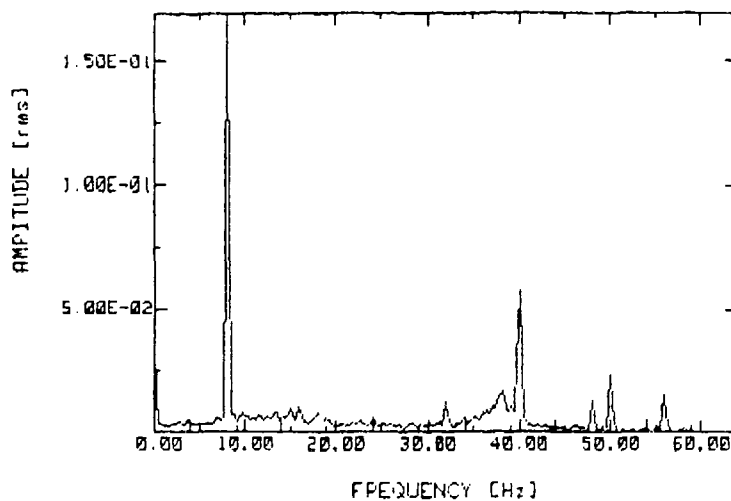
A SPEC 2 DELT_6259

#AV: 10



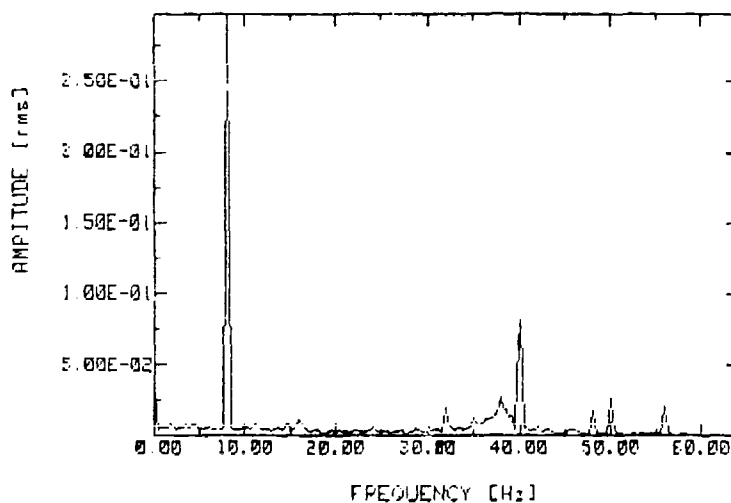
A SPEC 2 DELT_6266

#RV: 10



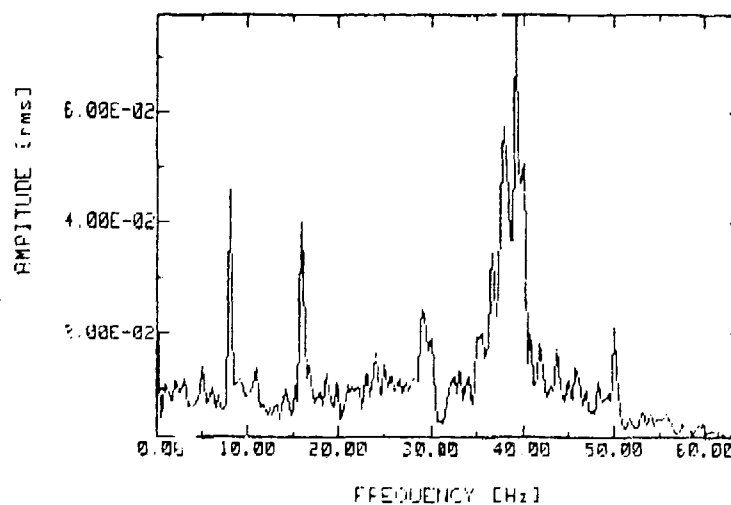
A SPEC 2 DELT_6267

#RV: 10



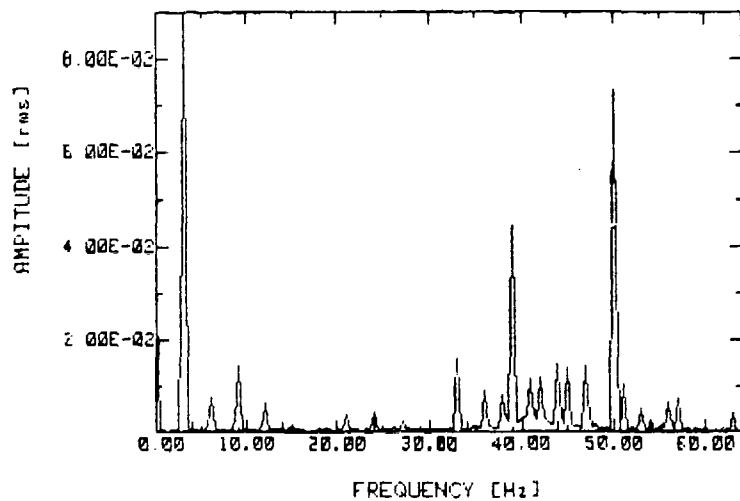
A SPEC 2 DELT_6268

#RV: 10



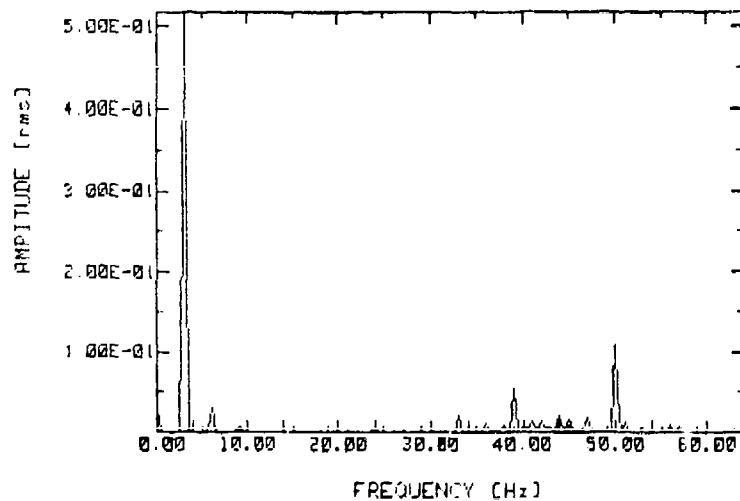
A SPEC 2 DELT_7104

#RV: 10



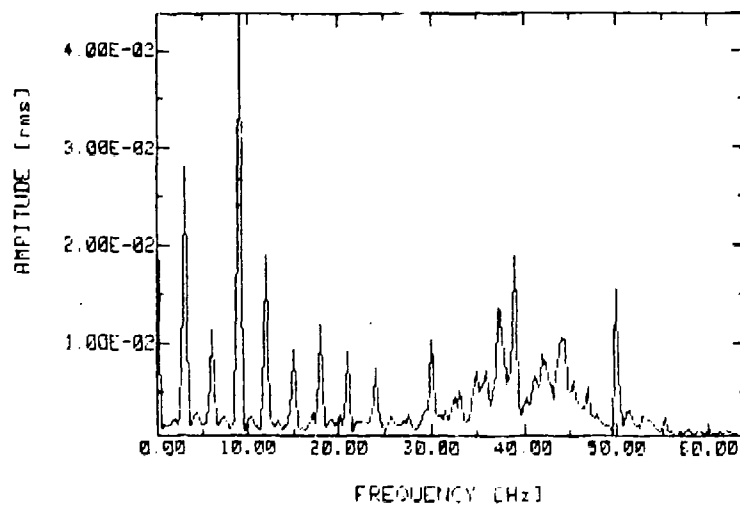
A SPEC 2 DELT_7105

#RV: 10



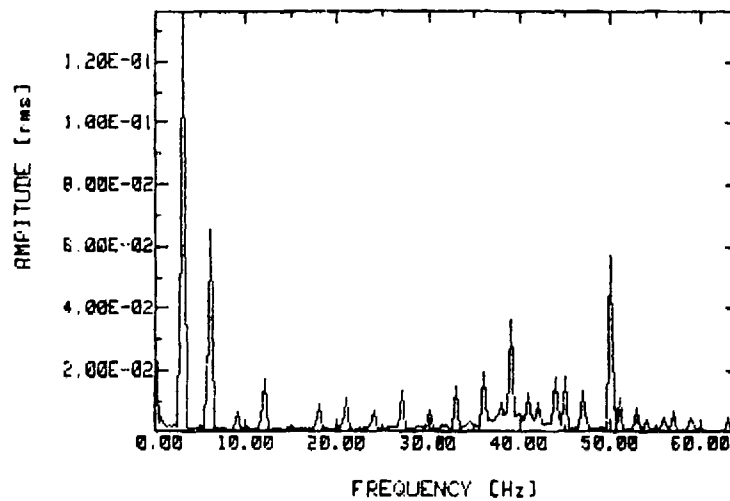
A SPEC 2 DELT_7106

#RV: 10



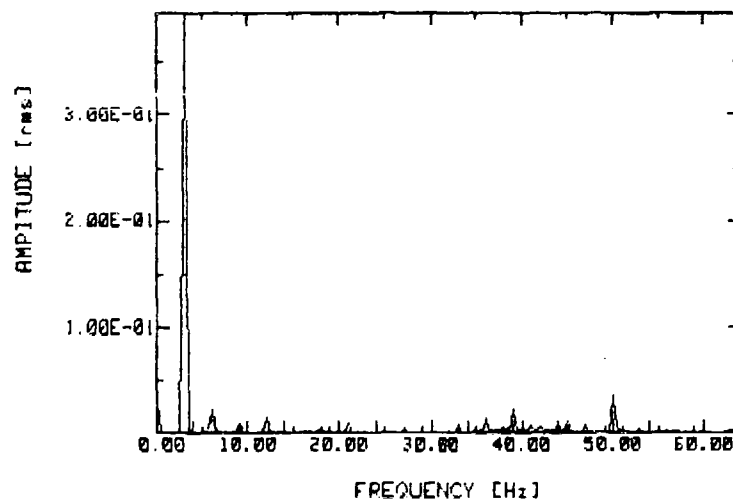
A SPEC 2 DELT_7107

#AV: 10



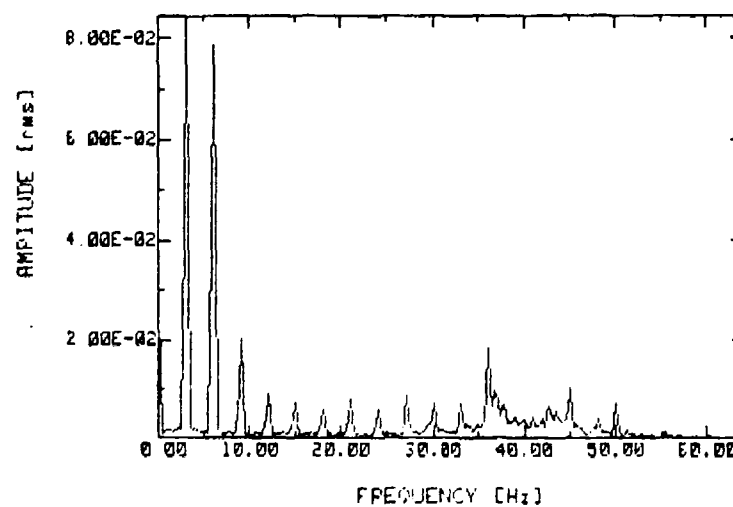
A SPEC 2 DELT_7108

#AV: 10

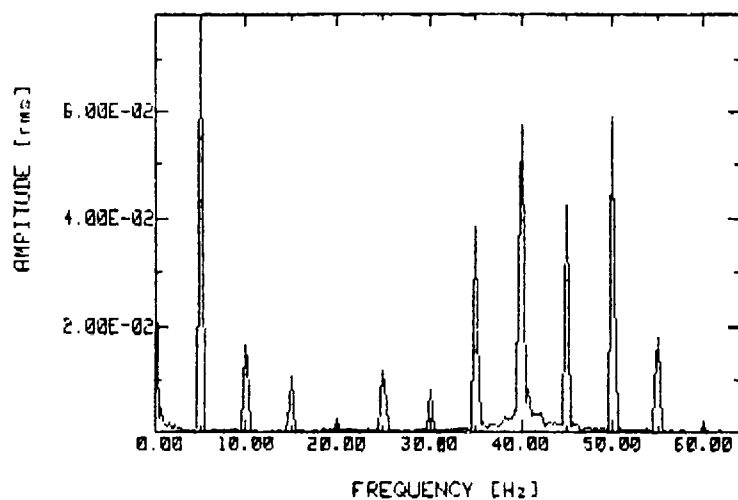


A SPEC 2 DELT_7109

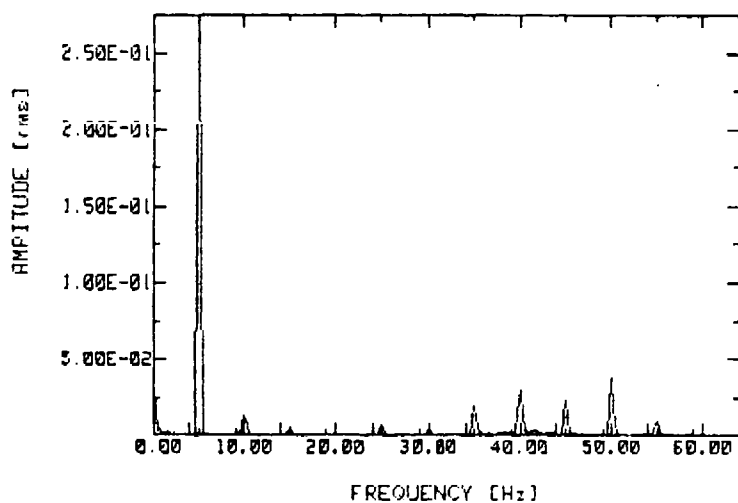
#AV: 10



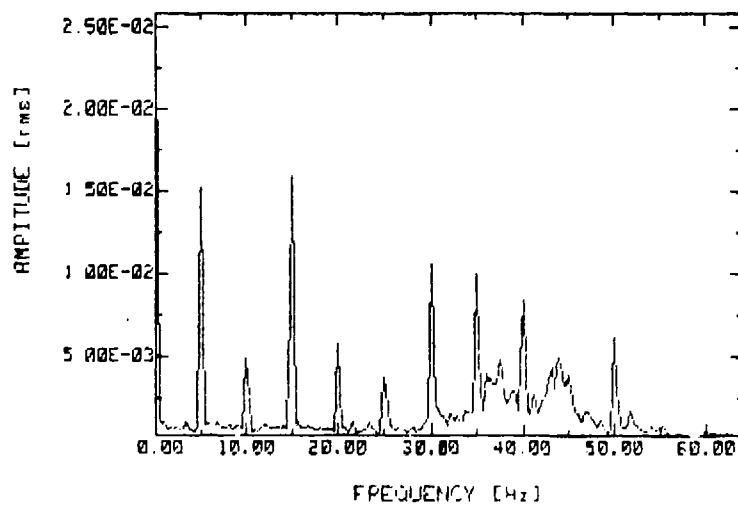
A SPEC 2 DELT_7113 #RV: 10



A SPEC 2 DELT_7114 #RV: 10

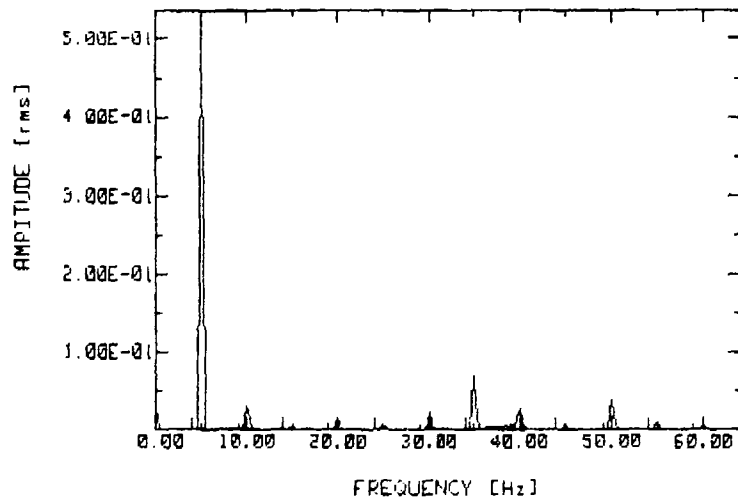


A SPEC 2 DELT_7115 #RV: 10



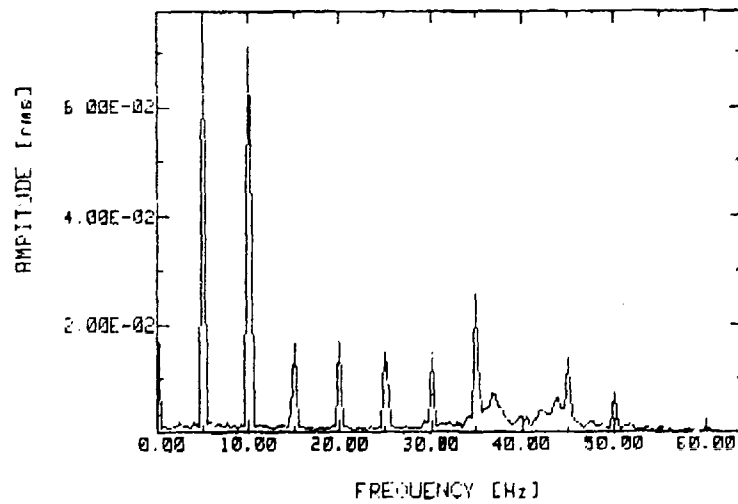
R SPEC 2 DELT_7116

#RV: 10



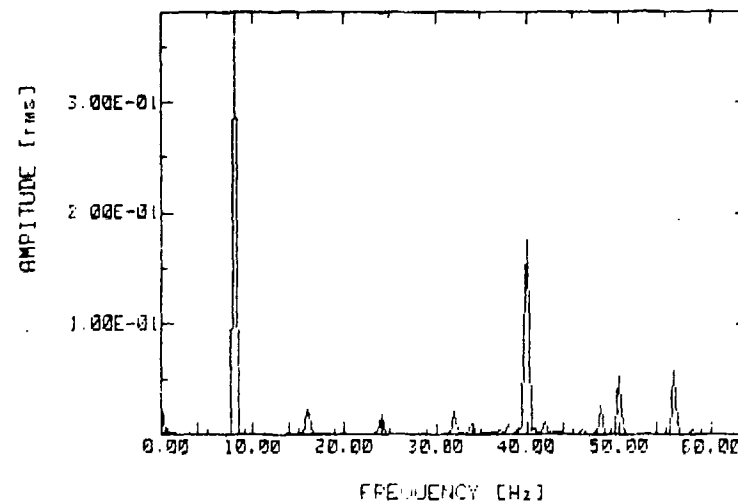
R SPEC 2 DELT_7117

#RV: 10



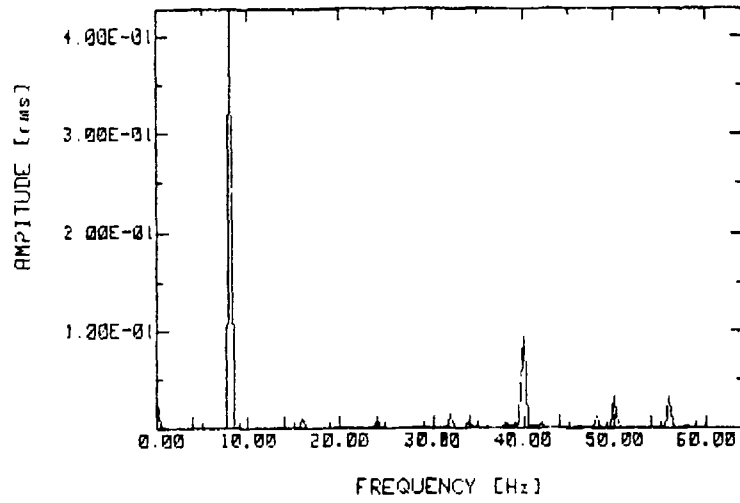
R SPEC 2 DELT_7124

#RV: 10



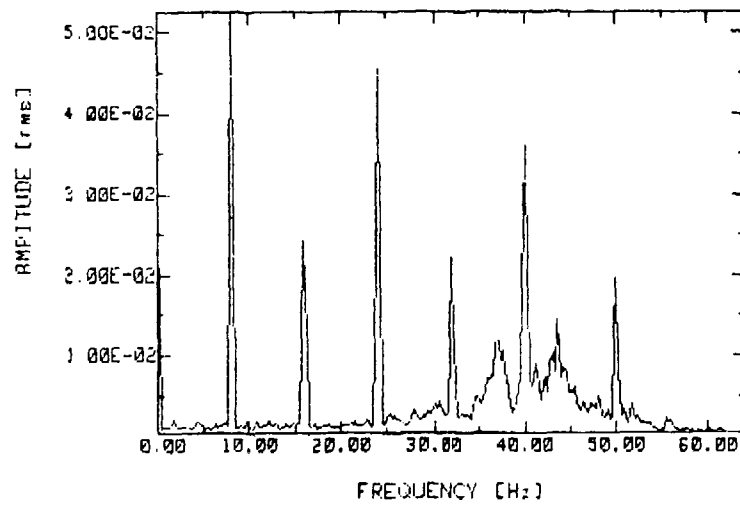
A SPEC 2 DELT_7125

#RV: 10



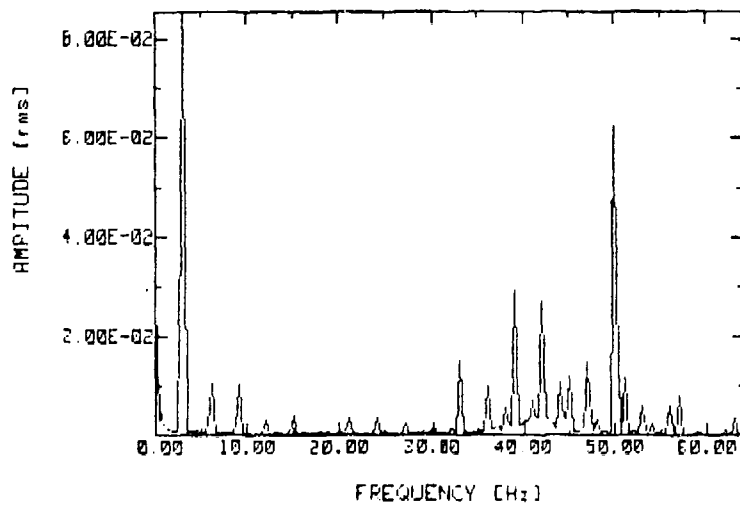
A SPEC 2 DELT_7126

#RV: 10



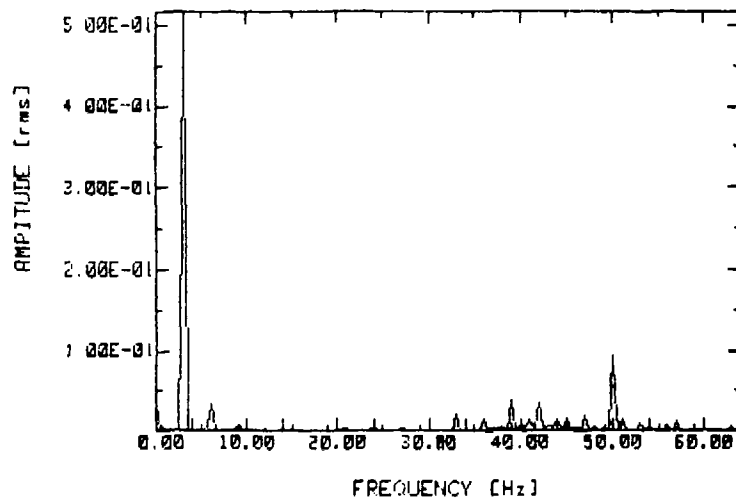
A SPEC 2 DELT_7133

#RV: 10



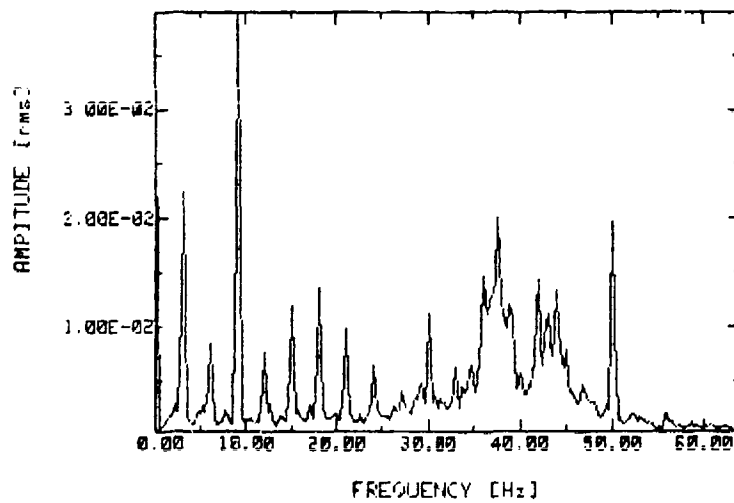
A SPEC 2 DELT_7134

#AV: 10



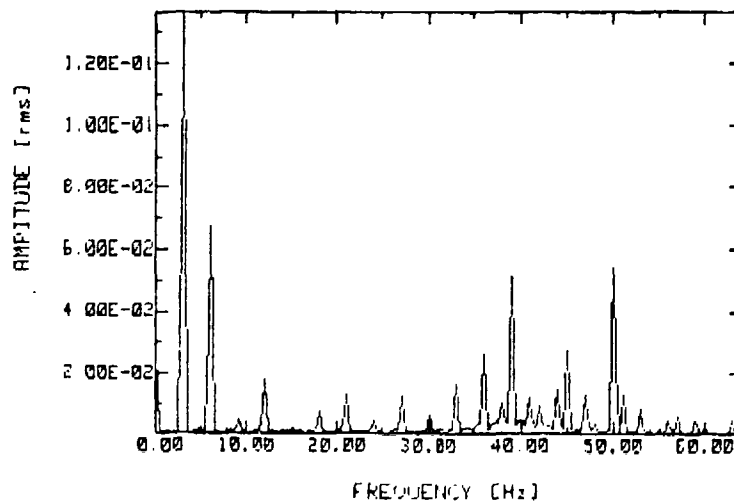
A SPEC 2 DELT_7135

#AV: 10



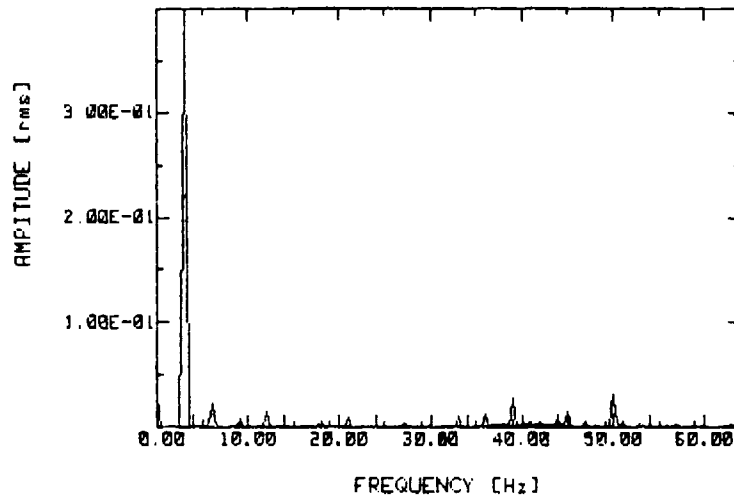
A SPEC 2 DELT_7136

#AV: 10



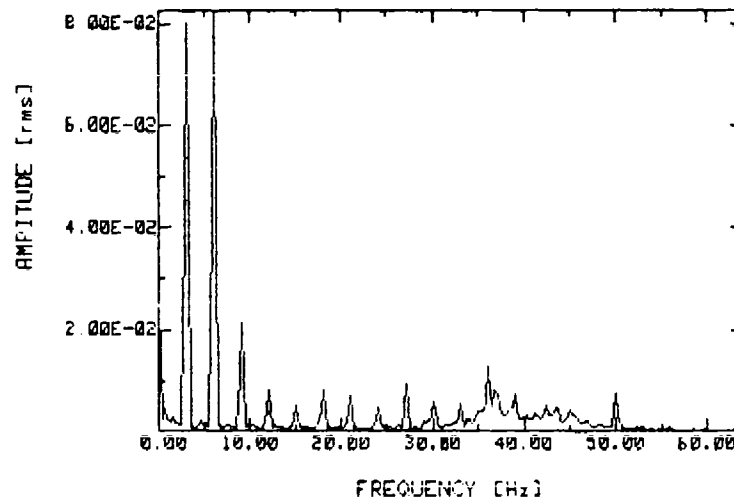
A SPEC 2 DELT_7137

#RV: 10



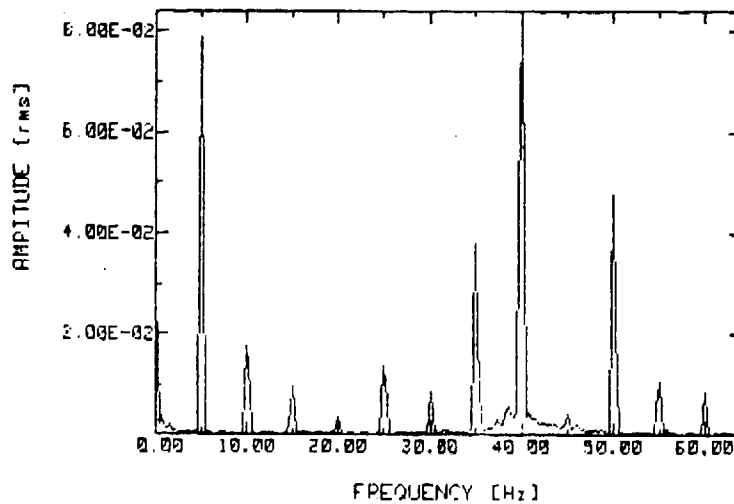
A SPEC 2 DELT_7138

#RV: 10



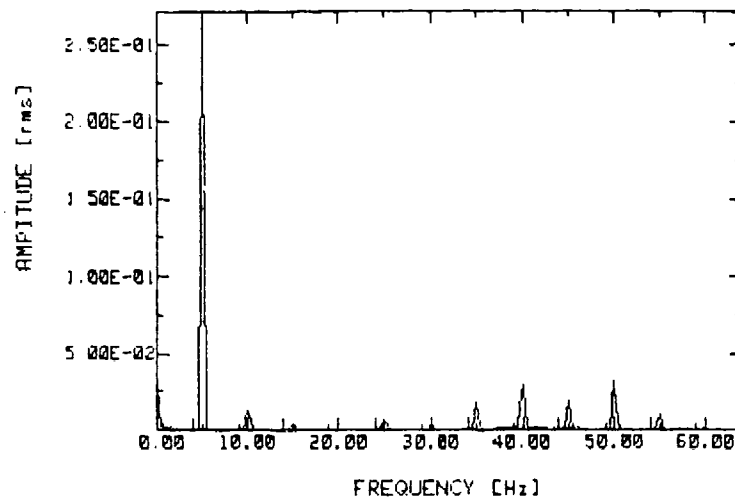
A SPEC 2 DELT_7142

#RV: 10



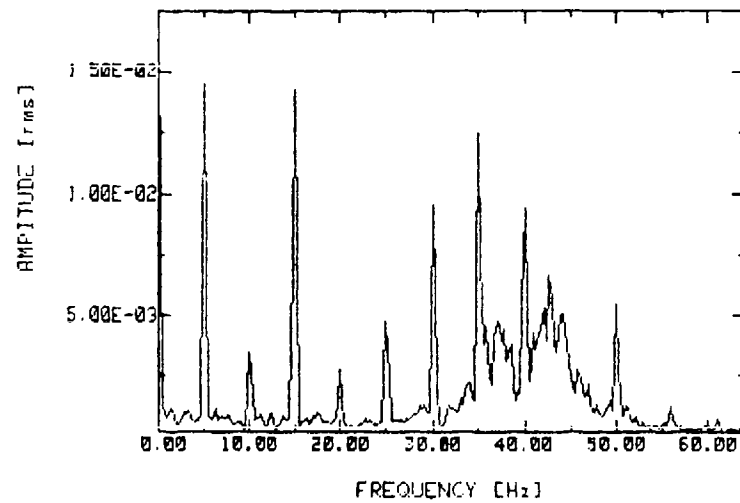
A SPEC 2 DELT_7143

#RV: 10



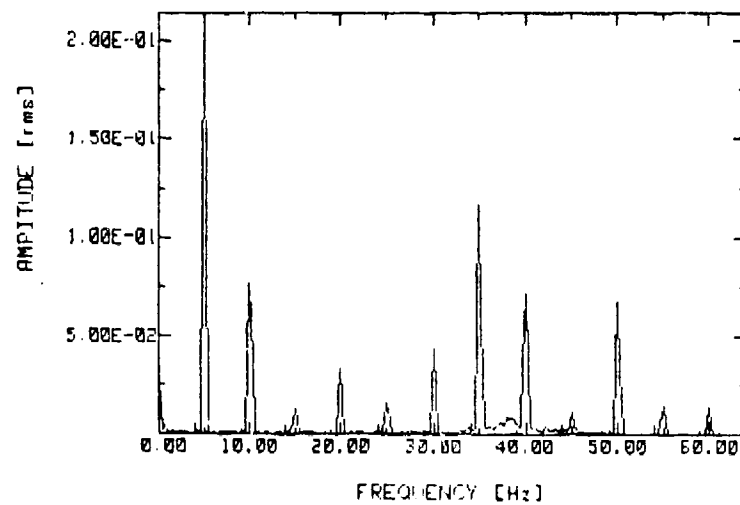
A SPEC 2 DELT_7144

#RV: 10



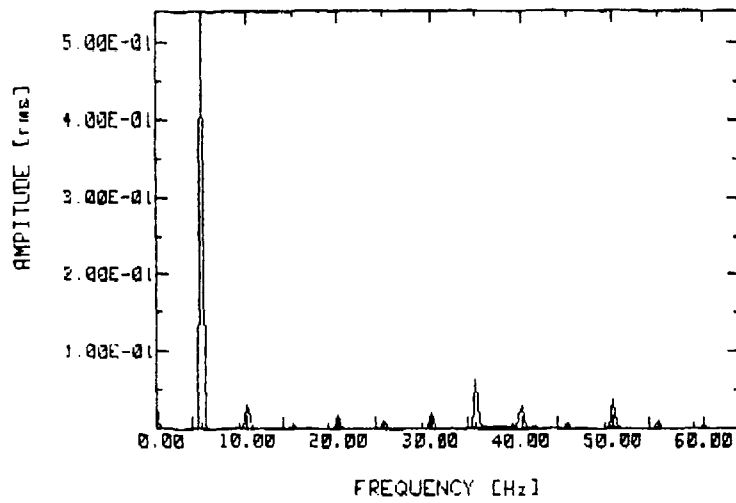
A SPEC 2 DELT_7145

#RV: 10



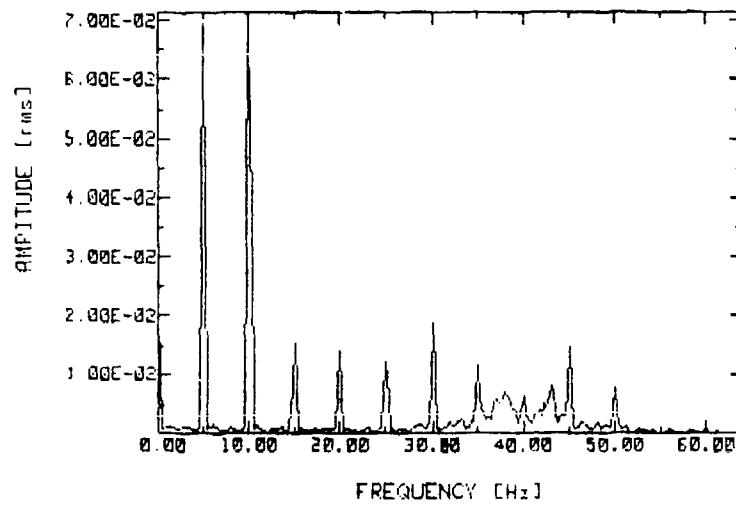
A SPEC 2 DELT_7146

#RV: 10



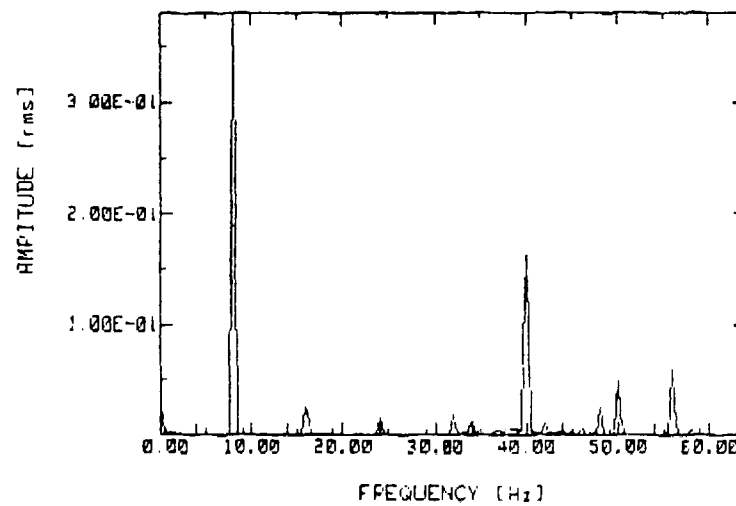
A SPEC 2 DELT_7147

#RV: 10



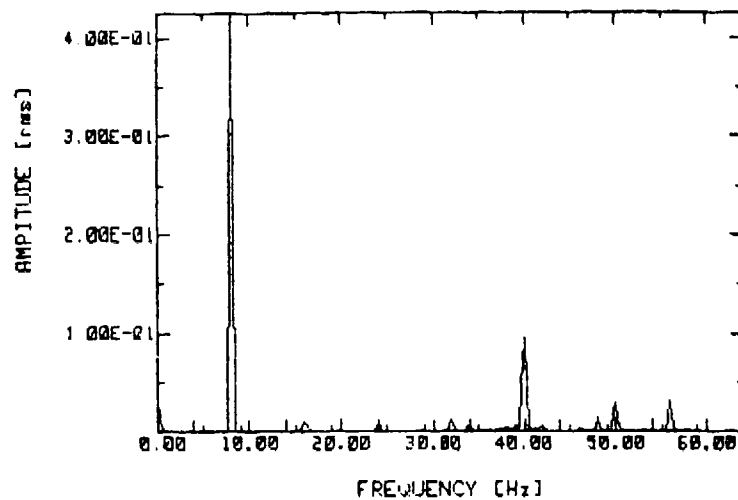
A SPEC 2 DELT_7153

#RV: 10



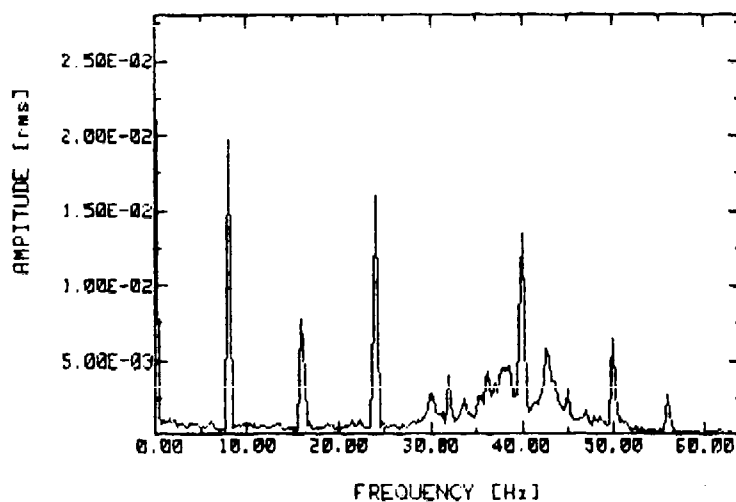
A SPEC 2 DELT_7154

#AV: 10



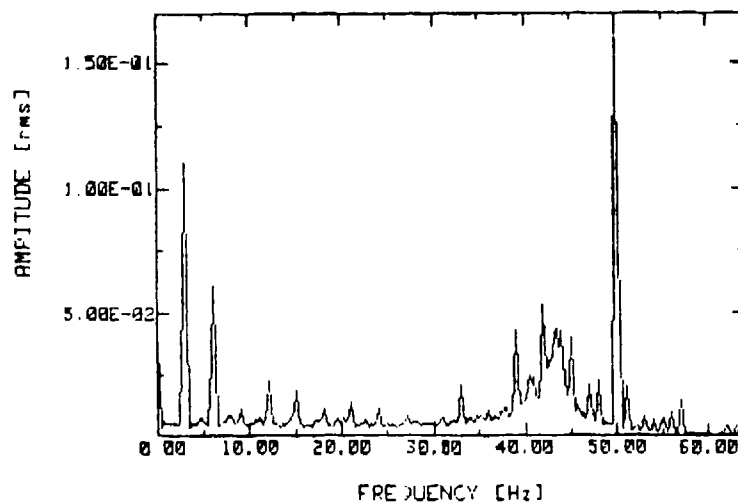
A SPEC 2 DELT_7155

#AV: 10



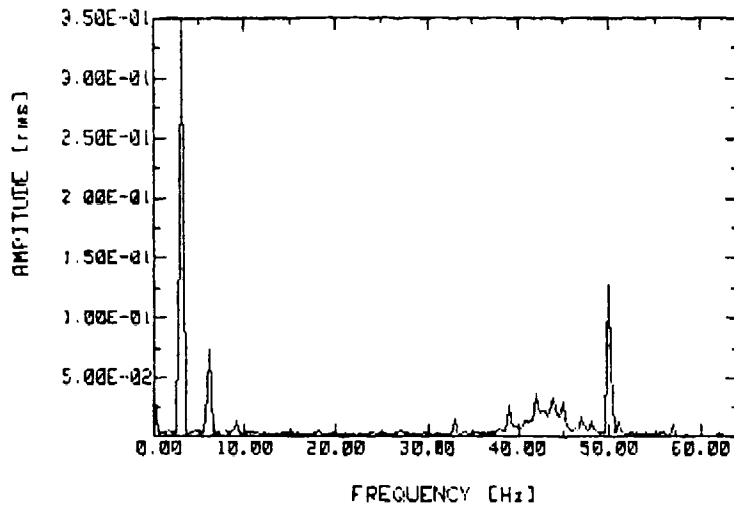
A SPEC 2 DELT_7162

#AV: 20



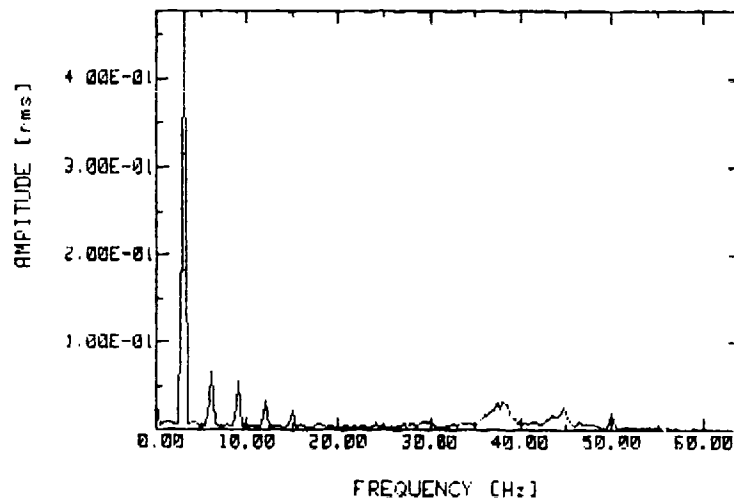
A SPEC 2 DELT_7163

#AV: 20



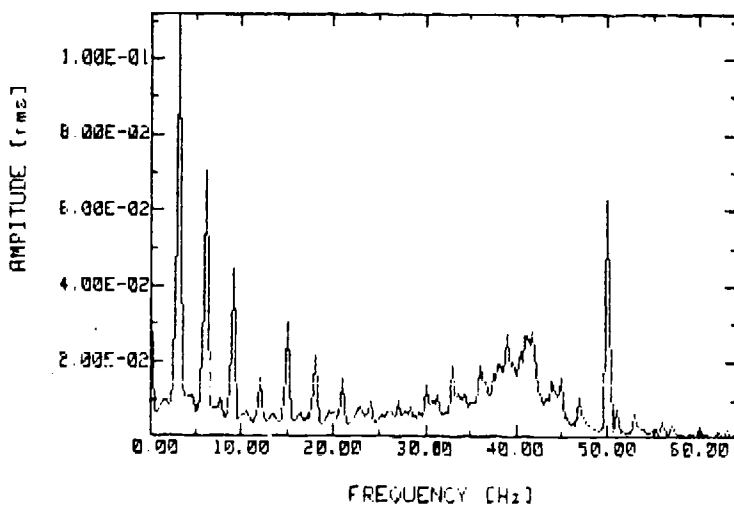
A SPEC 2 DELT_7164

#AV: 20



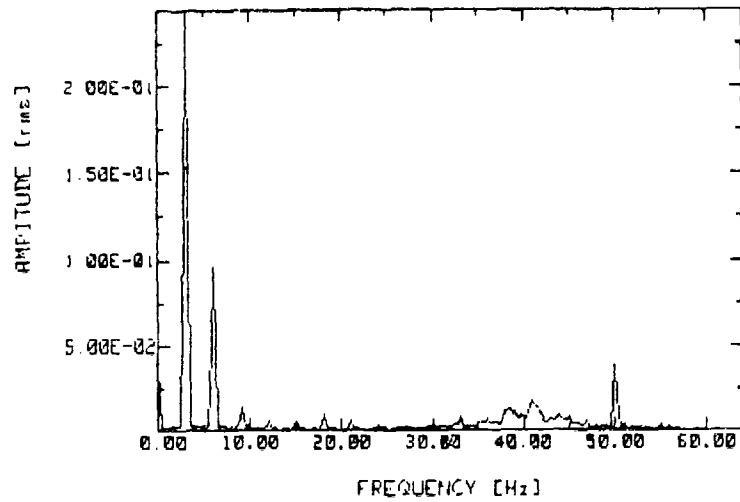
A SPEC 2 DELT_7165

#AV: 20



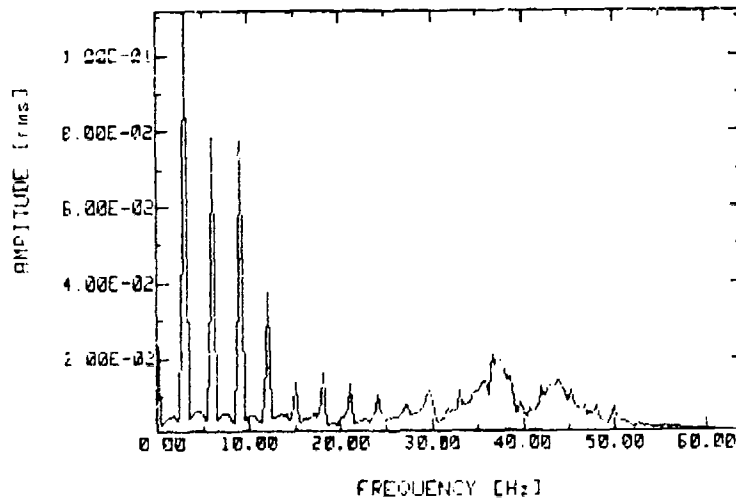
A SPEC 2 DELT_7166

#RV: 20



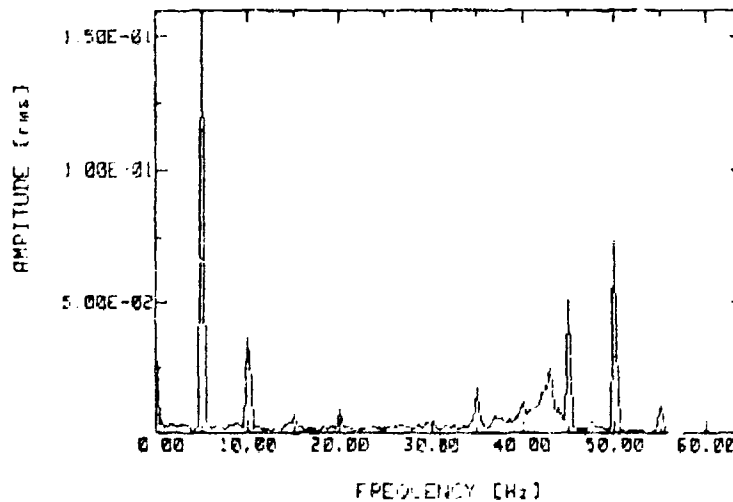
A SPEC 2 DELT_7167

#RV: 20



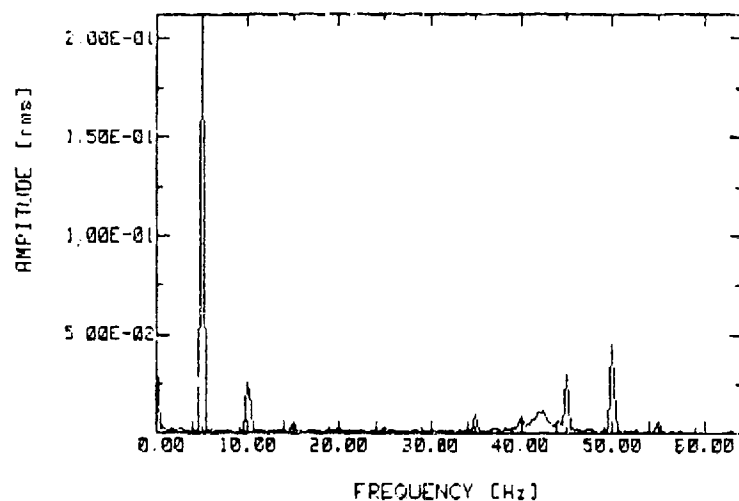
A SPEC 2 DELT_7171

#RV: 10



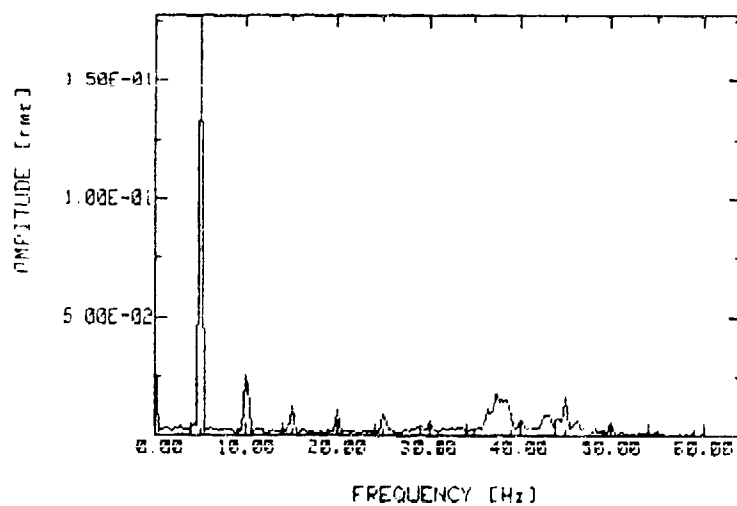
A SPEC 2 DELT_7172

#RV: 10



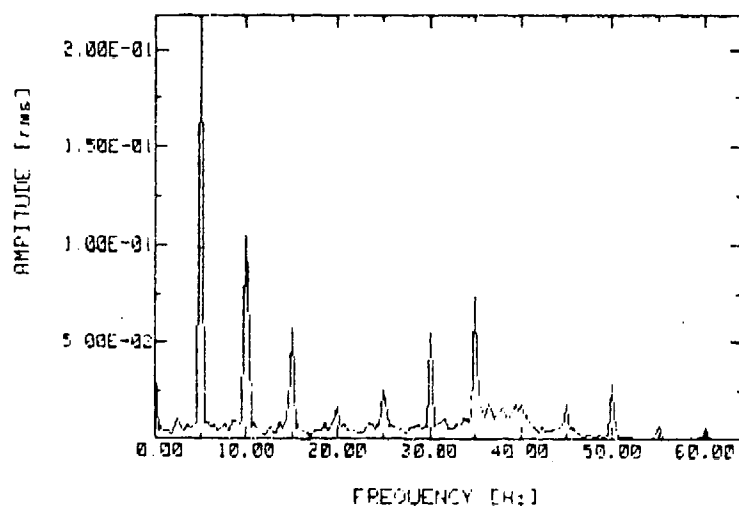
A SPEC 2 DELT_7173

#RV: 10



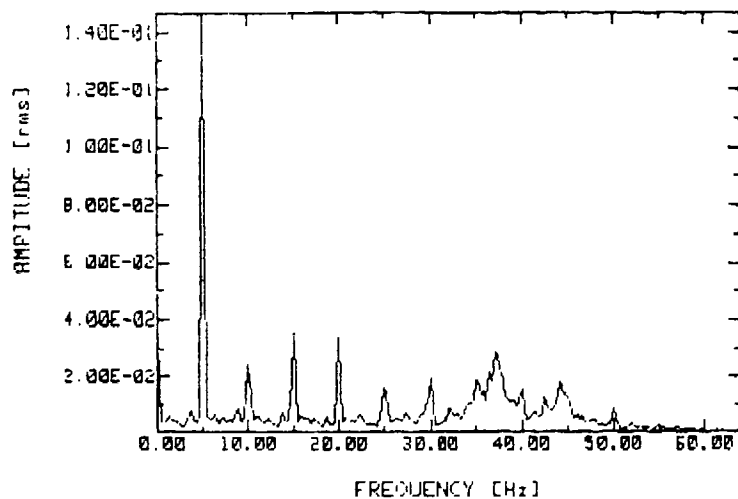
A SPEC 2 DELT_7174

#RV: 10



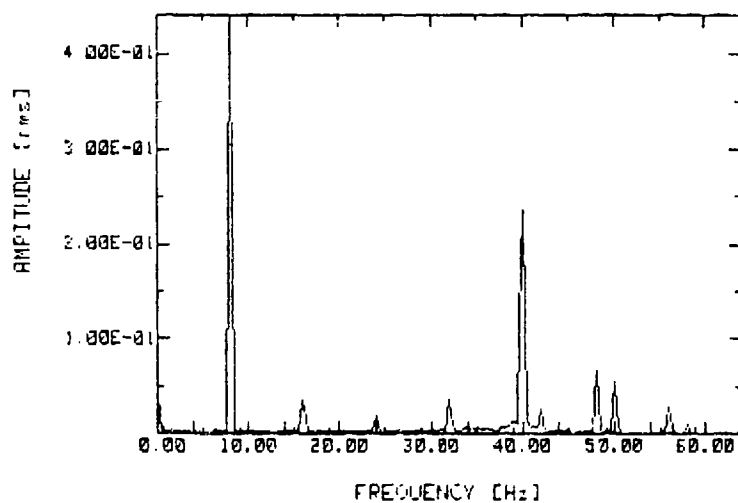
R SPEC 2 DELT_7201

#AV: 10



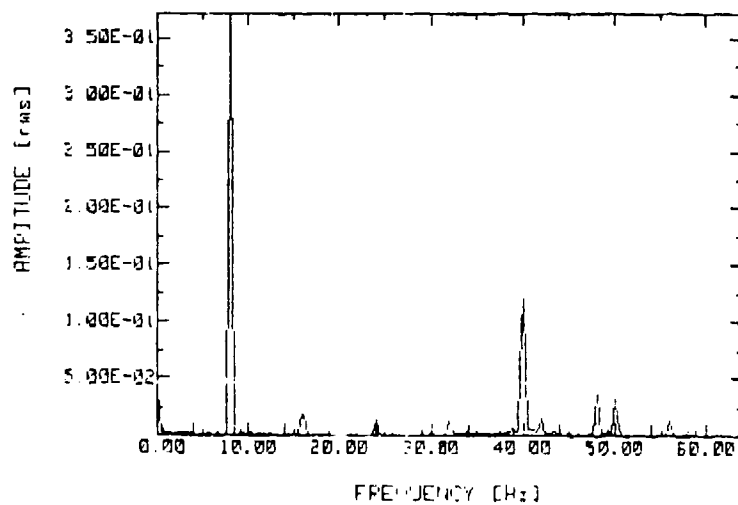
A SPEC 2 DELT_7200

#AV: 10



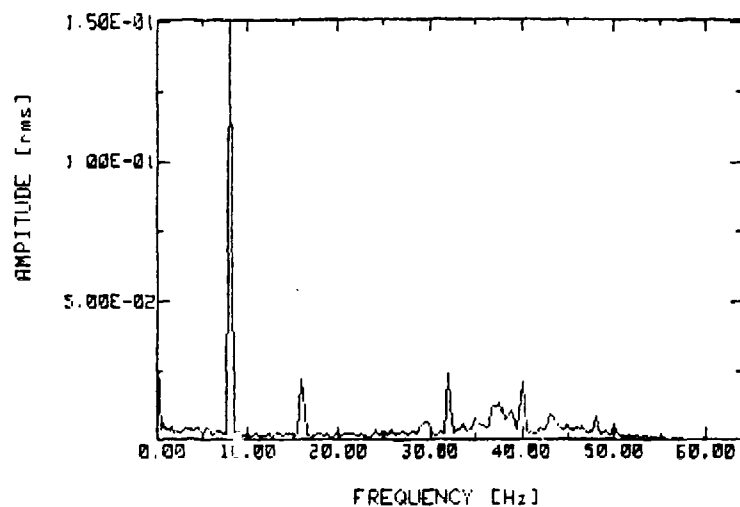
A SPEC 2 DELT_7209

#AV: 10



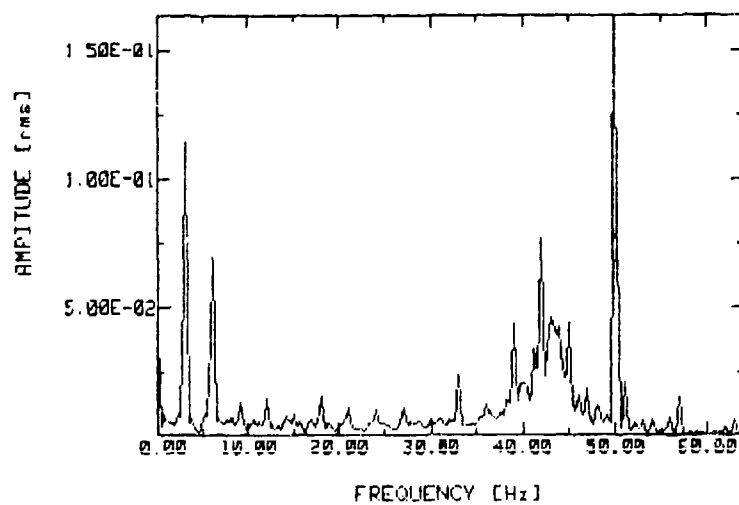
A SPEC 2 DELT_7210

#AV: 10



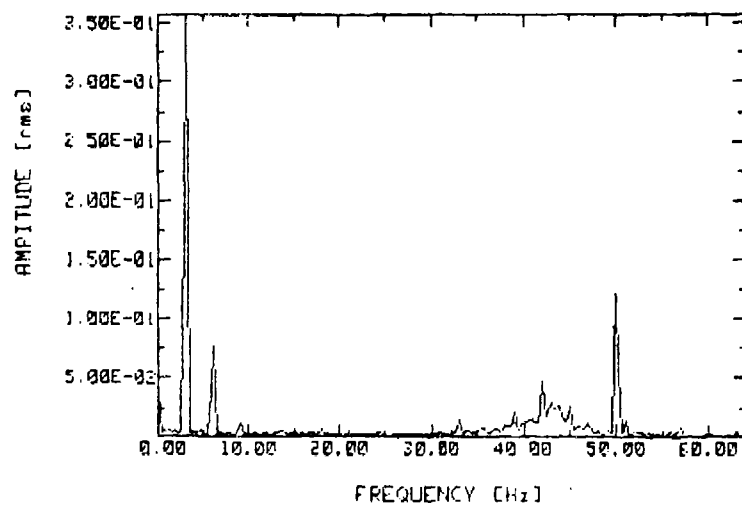
A SPEC 2 DELT_7217

#AV: 10



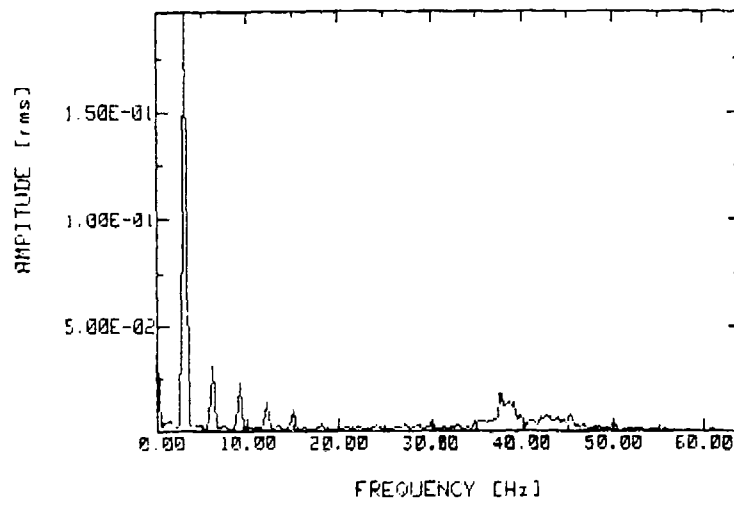
A SPEC 2 DELT_7218

#AV: 10



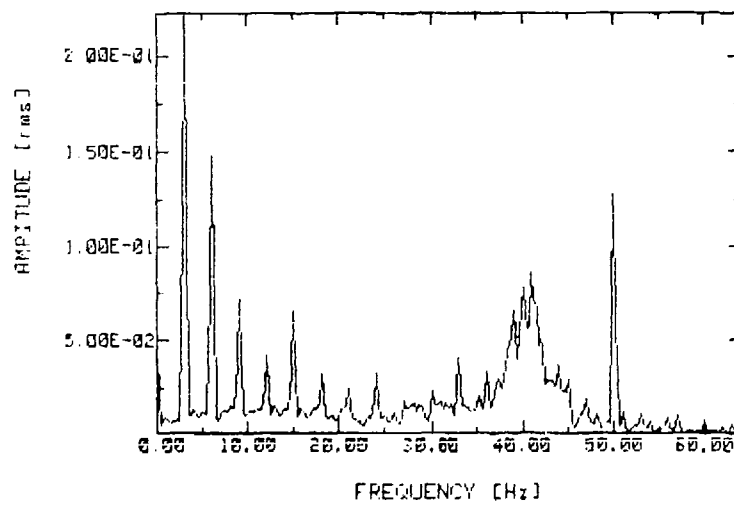
A SPEC 2 DELT_7219

#RV: 10



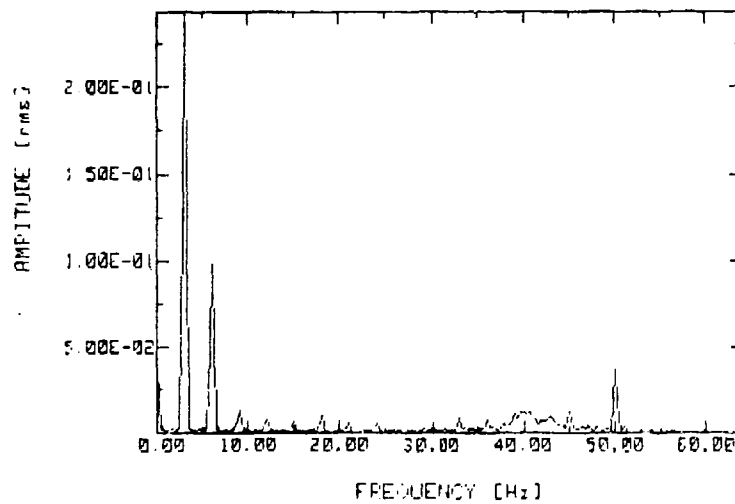
A SPEC 3 DELT_7220

#RV: 10



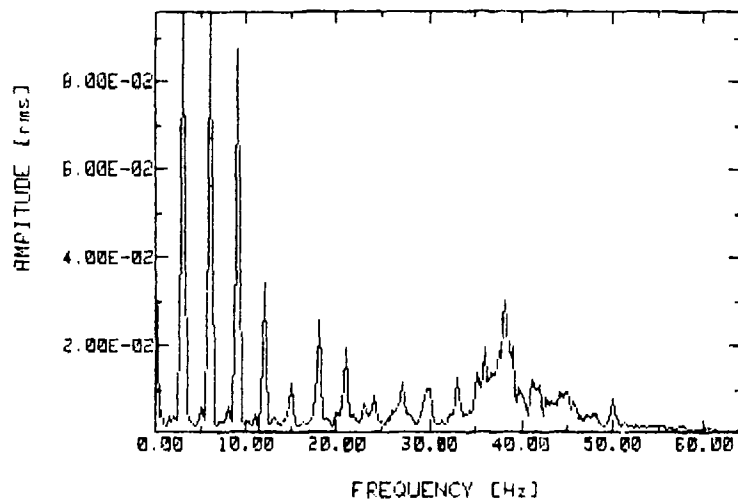
A SPEC 2 DELT_7221

#RV: 10



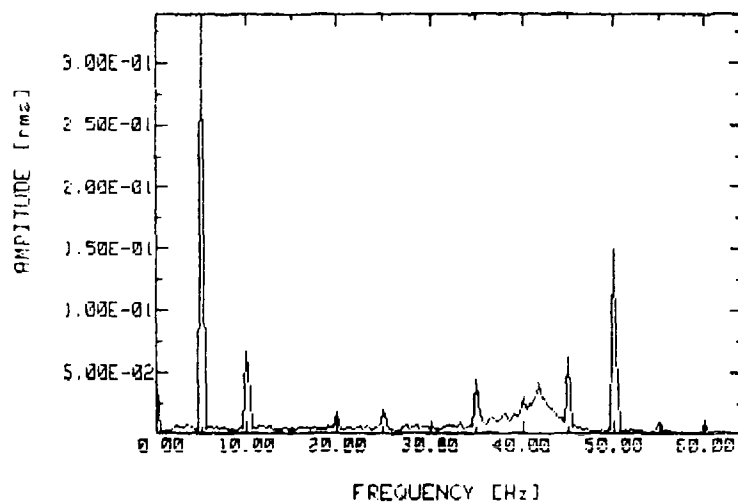
A SPEC 2 DELT_7222

#AV: 10



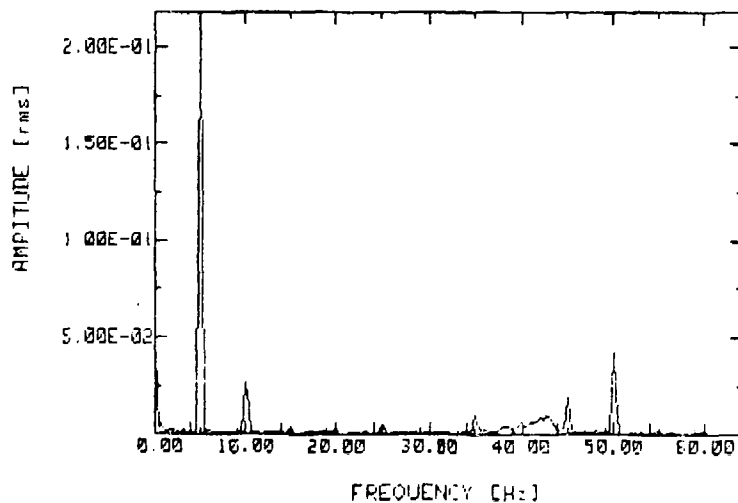
A SPEC 2 DELT_7226

#AV: 10



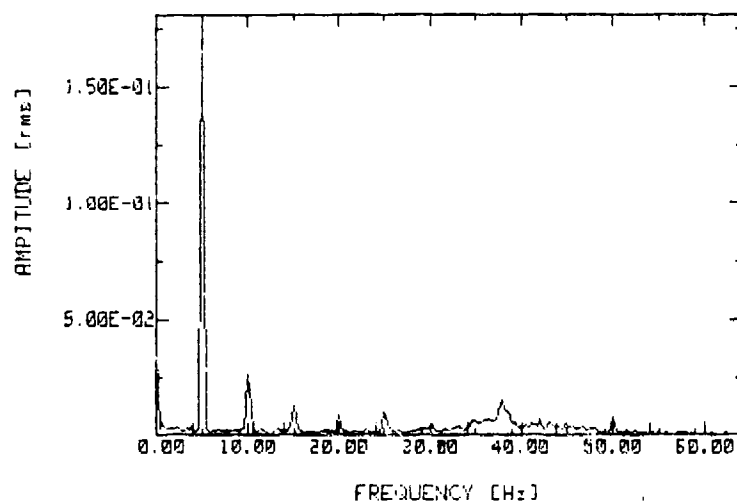
A SPEC 2 DELT_7227

#AV: 10



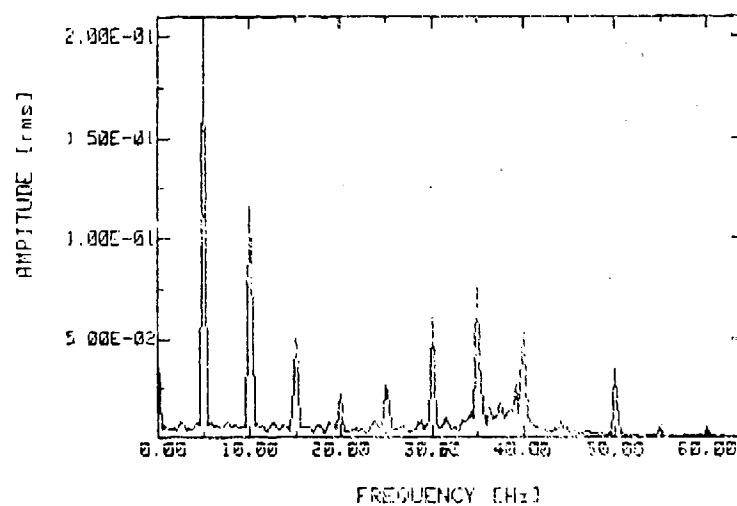
A SPEC 2 DELT_7228

#AV: 10



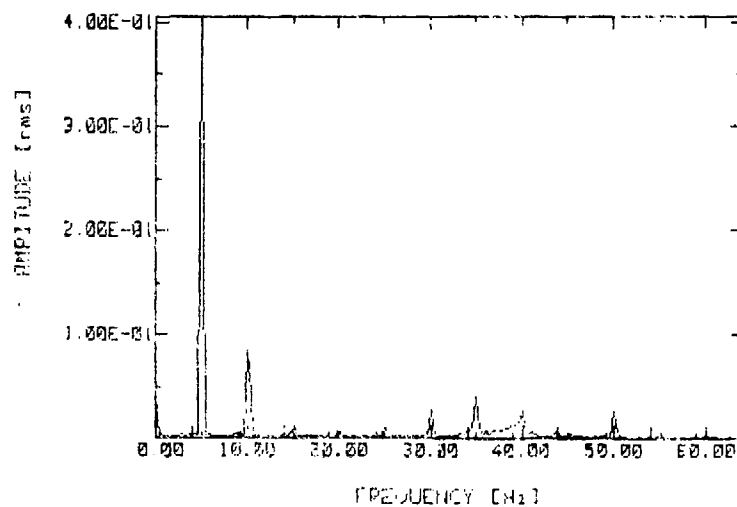
A SPEC 2 DELT_7229

#AV: 10



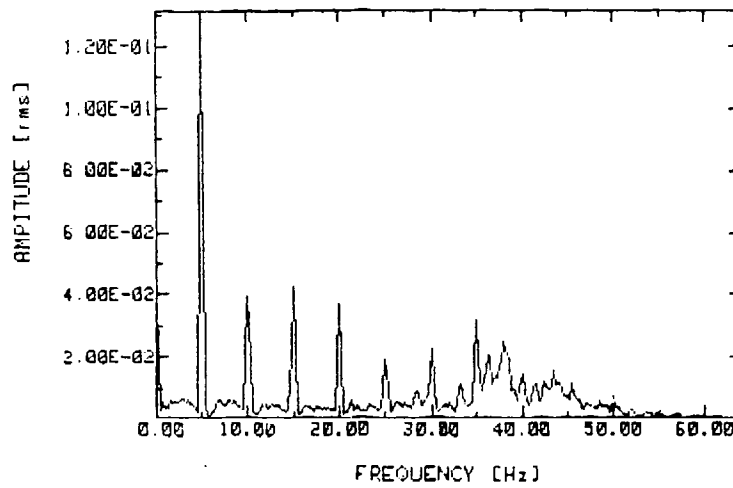
A SPEC 2 DELT_7230

#AV: 10



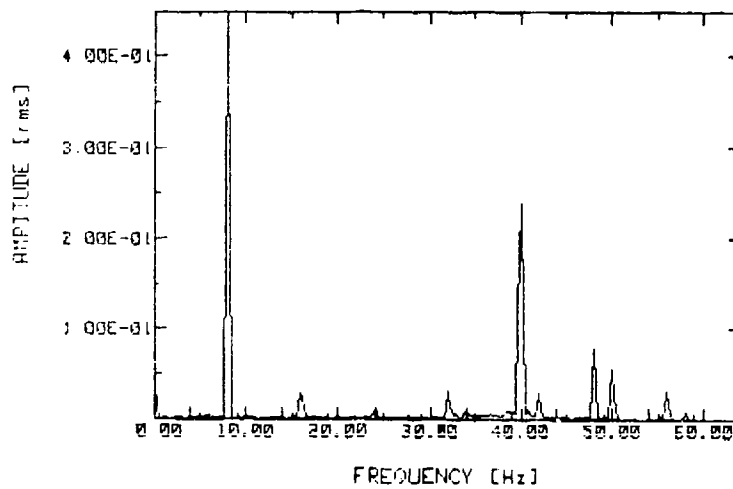
A SPEC 2 DELT_7231

#RV: 10



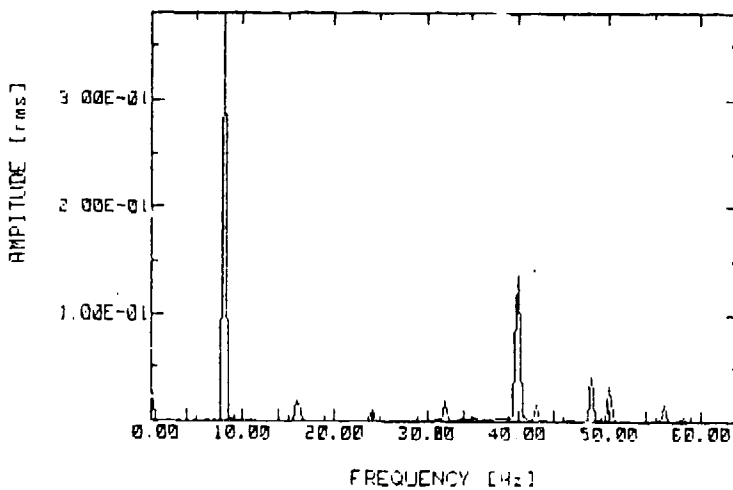
A SPEC 2 DELT_7238

#RV: 10



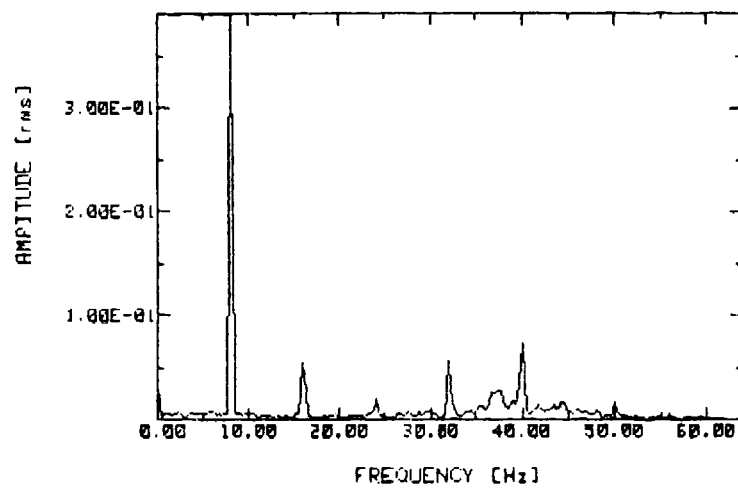
A SPEC 2 DELT_7239

#RV: 10



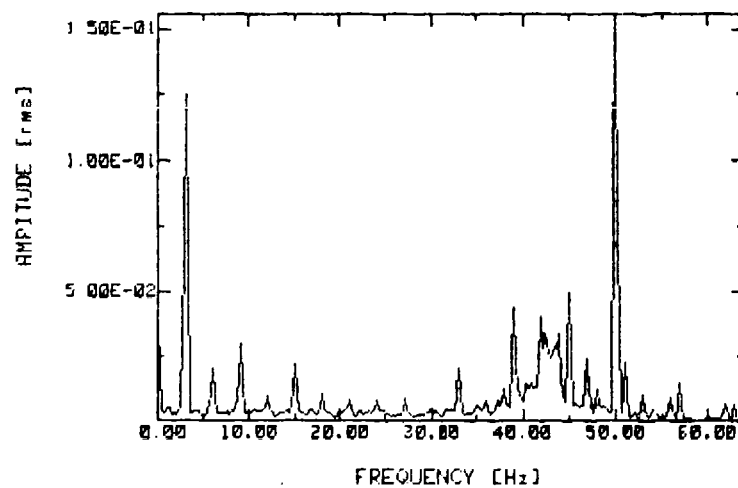
R SPEC 2 DELT_7240

#AV: 10



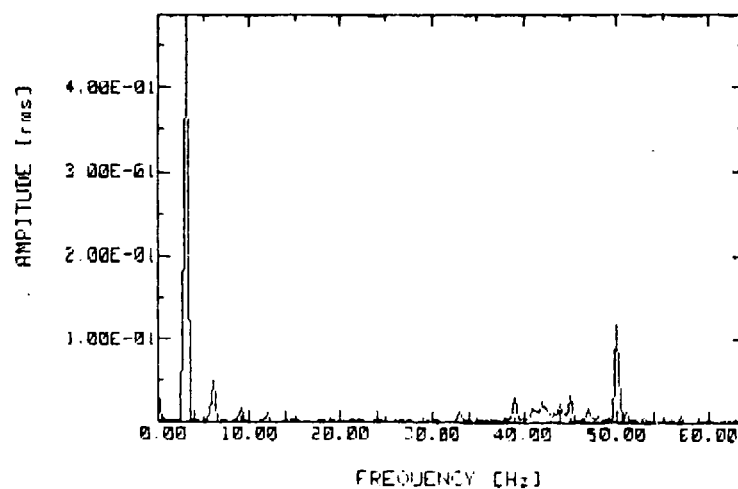
R SPEC 2 DELT_7242

#AV: 10



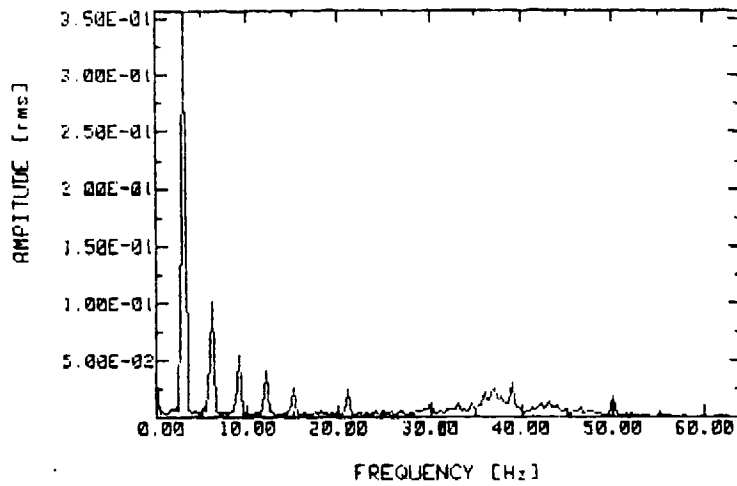
R SPEC 2 DELT_7248

#AV: 10



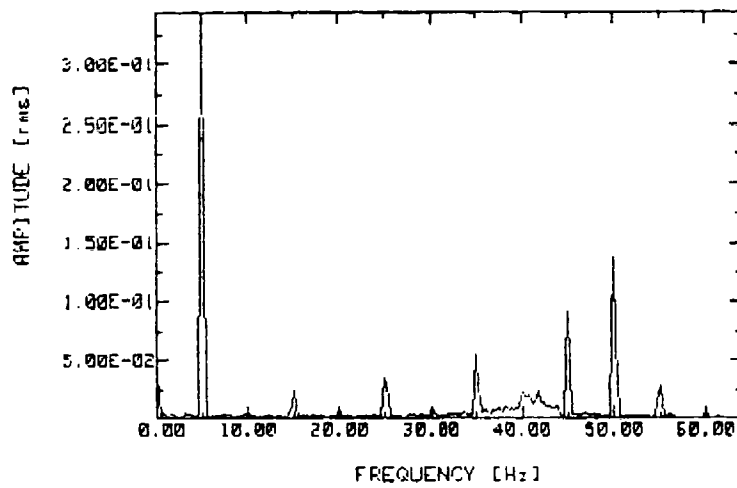
A SPEC 2 DELT_7249

#AV: 10



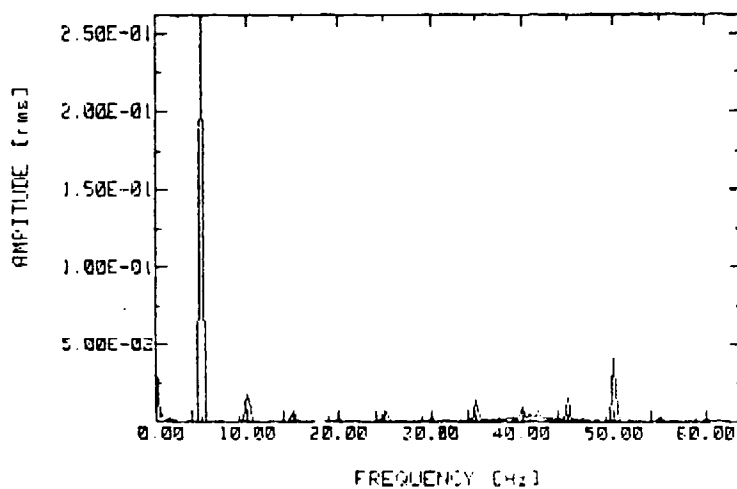
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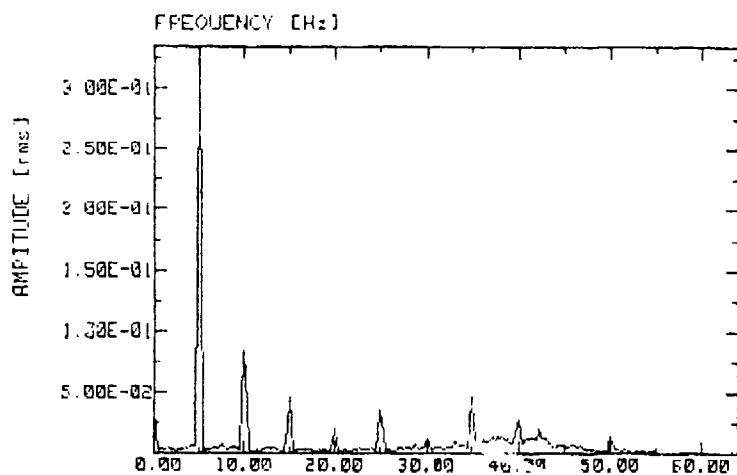
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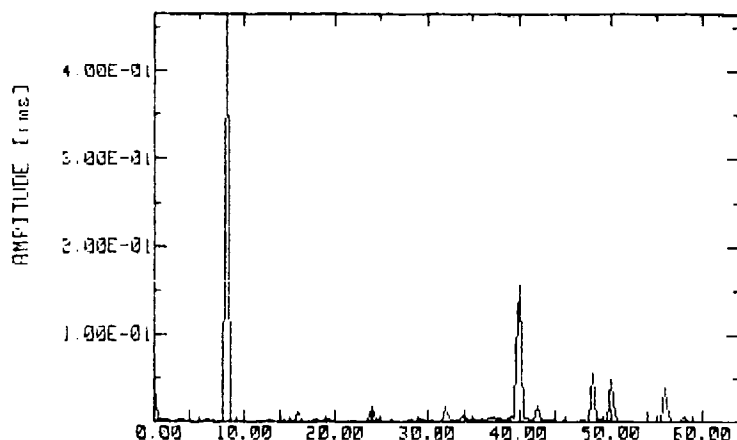
A SPEC 2 DELT_7257

#AV: 10

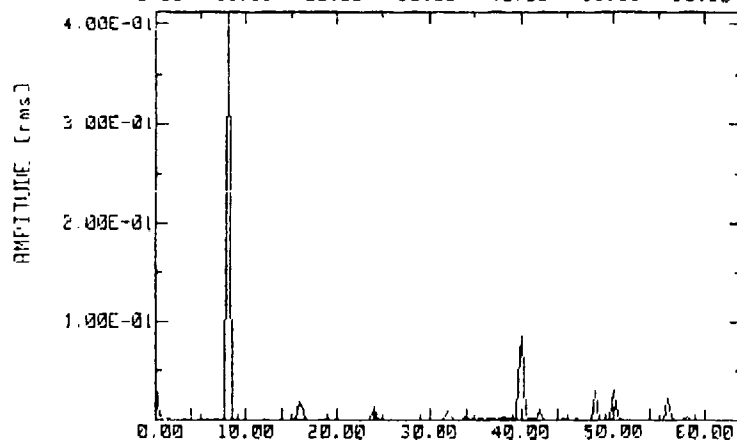




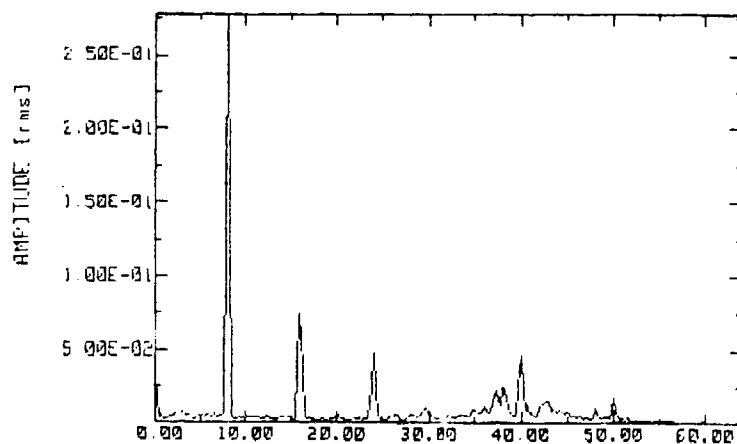
A SPEC 2 DELT_725B #AV: 10



A SPEC 2 DELT_726B #AV: 10



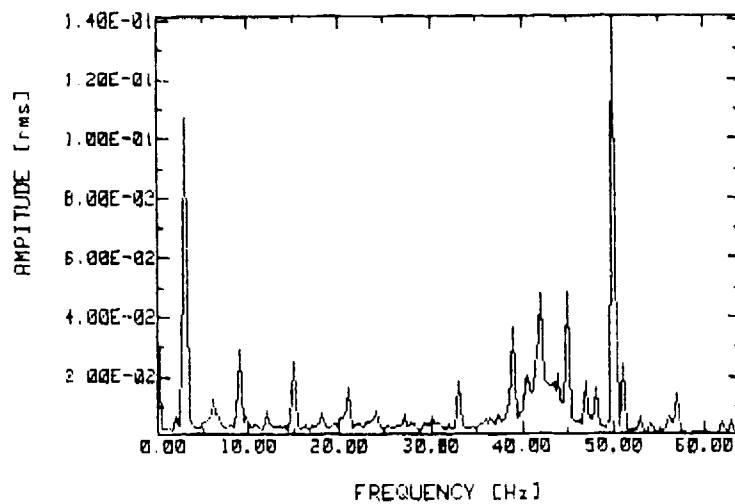
A SPEC 2 DELT_726B #AV: 10



A SPEC 2 DELT_727B #AV: 10

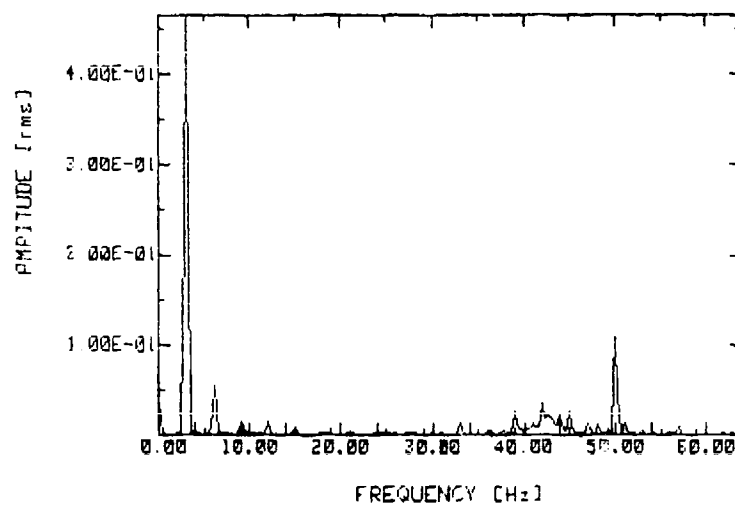
R SPEC 2 DELT_0102

#AV: 10



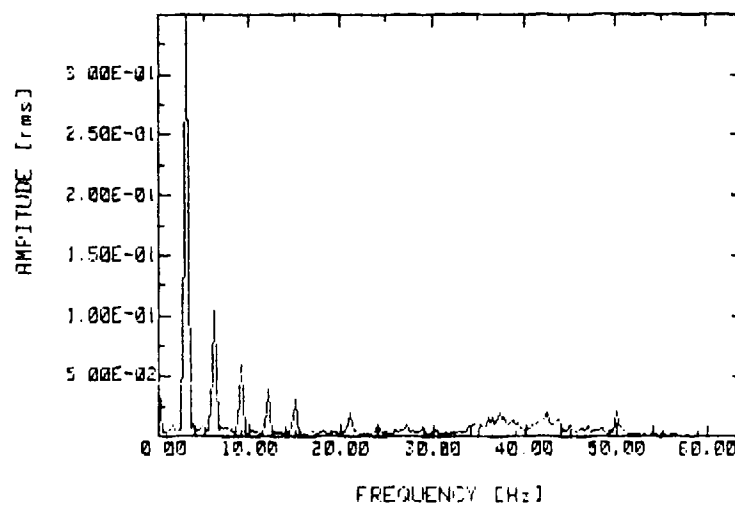
R SPEC 2 DELT_0103

#AV: 10



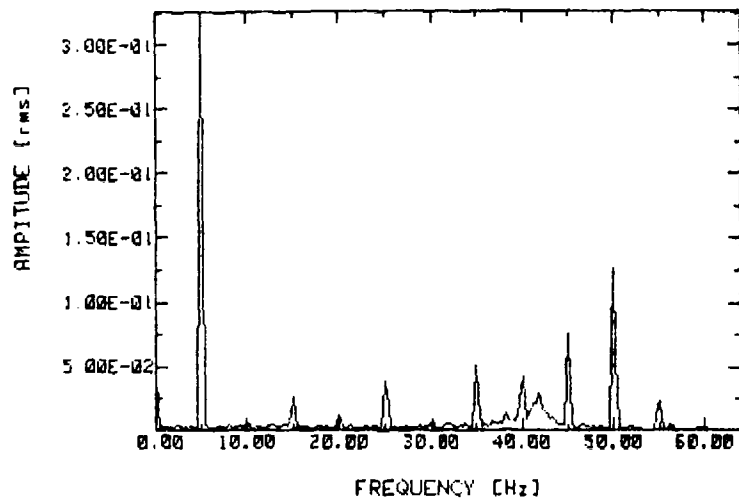
R SPEC 2 DELT_0104

#AV: 10



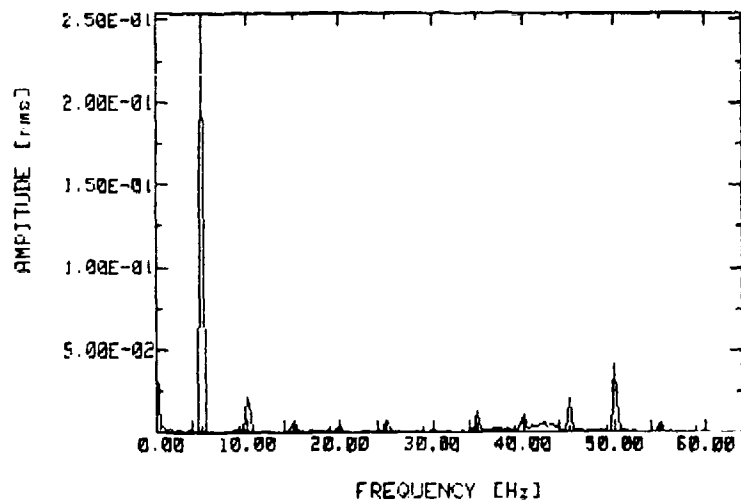
A SPEC 2 DELT_0111

#RV: 10



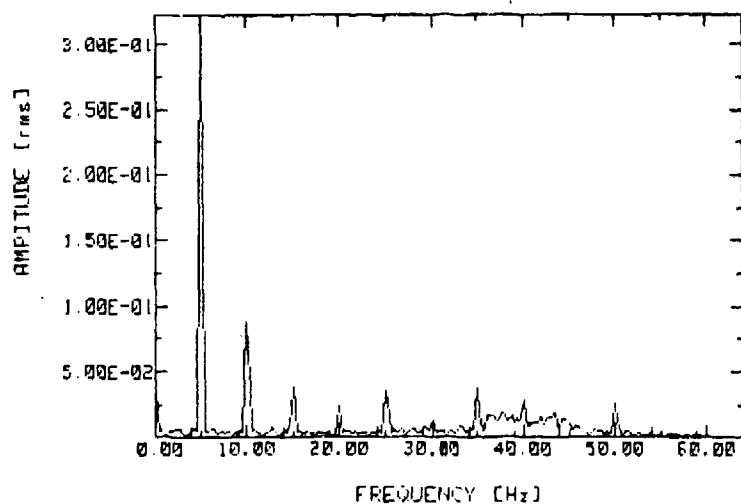
A SPEC 2 DELT_0112

#RV: 10



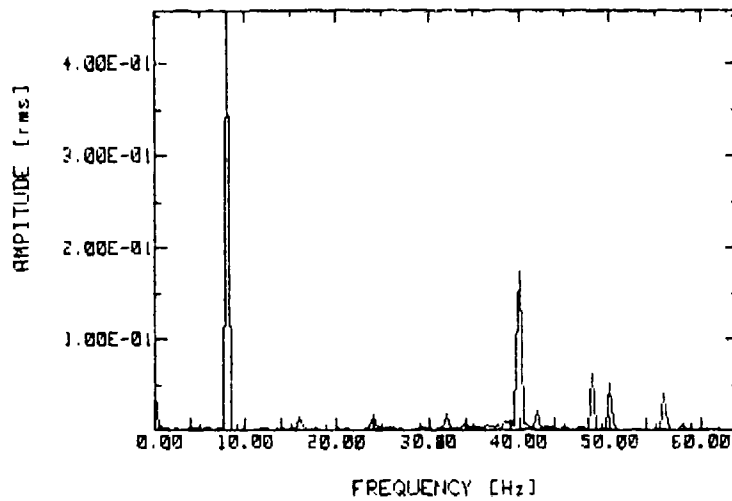
A SPEC 2 DELT_0113

#RV: 10



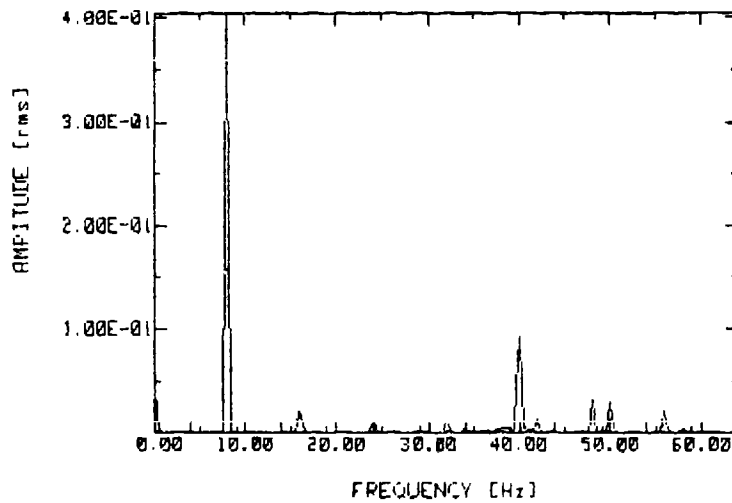
A SPEC 2 DELT_0123

#RV: 10



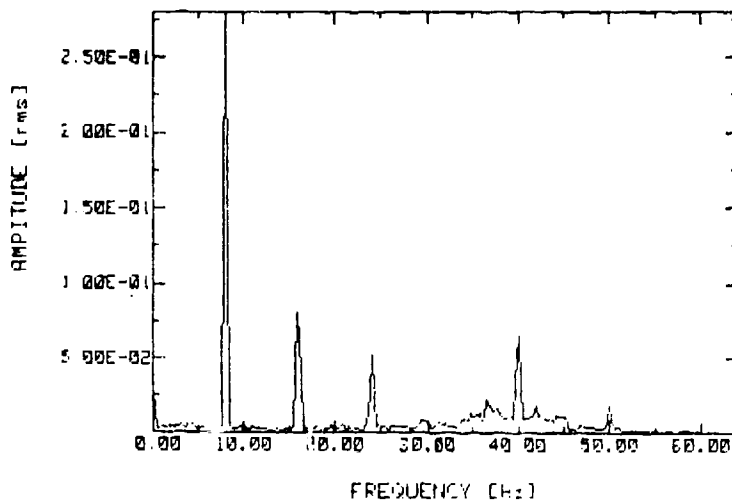
A SPEC 2 DELT_0124

#RV: 10



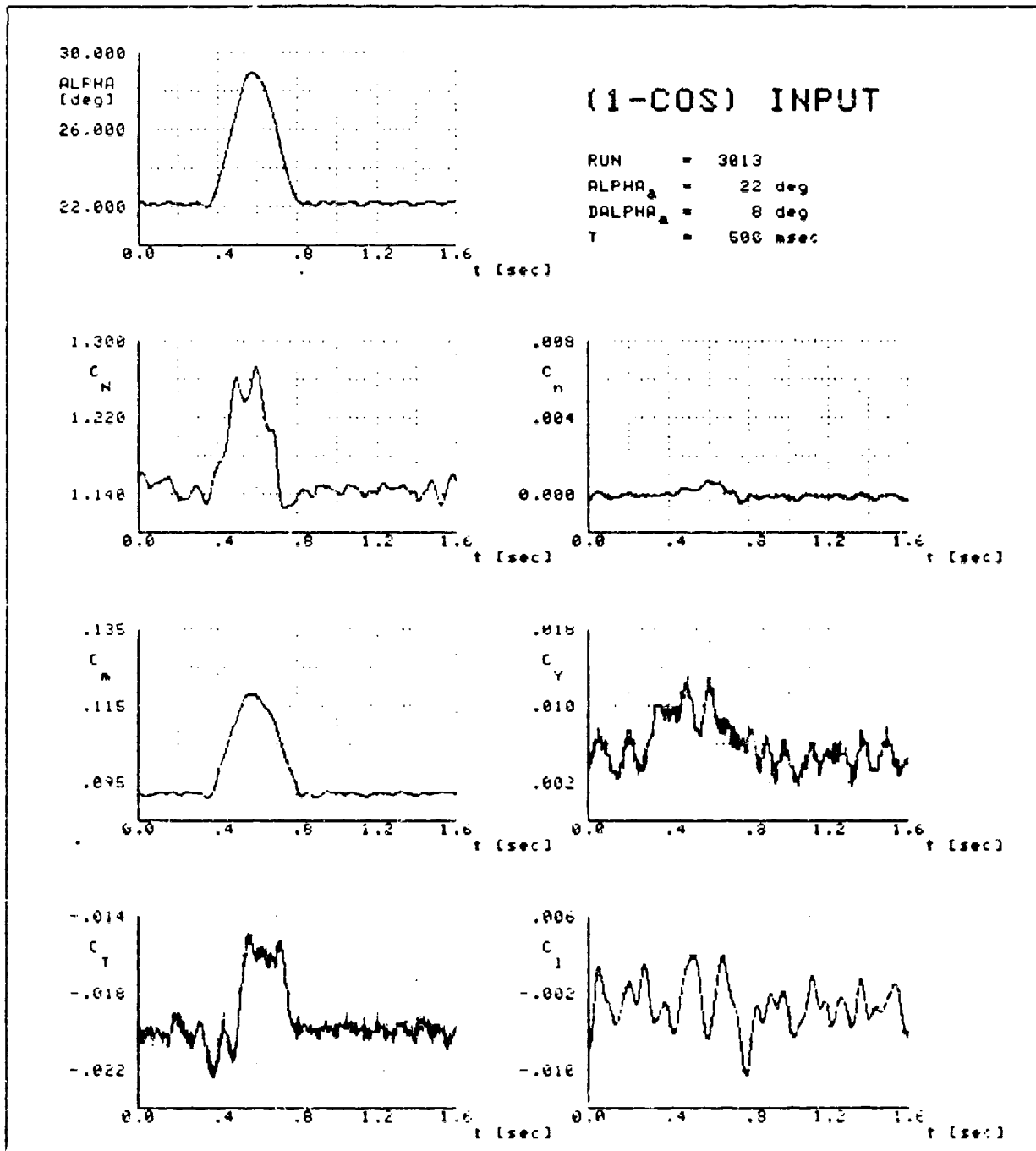
A SPEC 2 DELT_0125

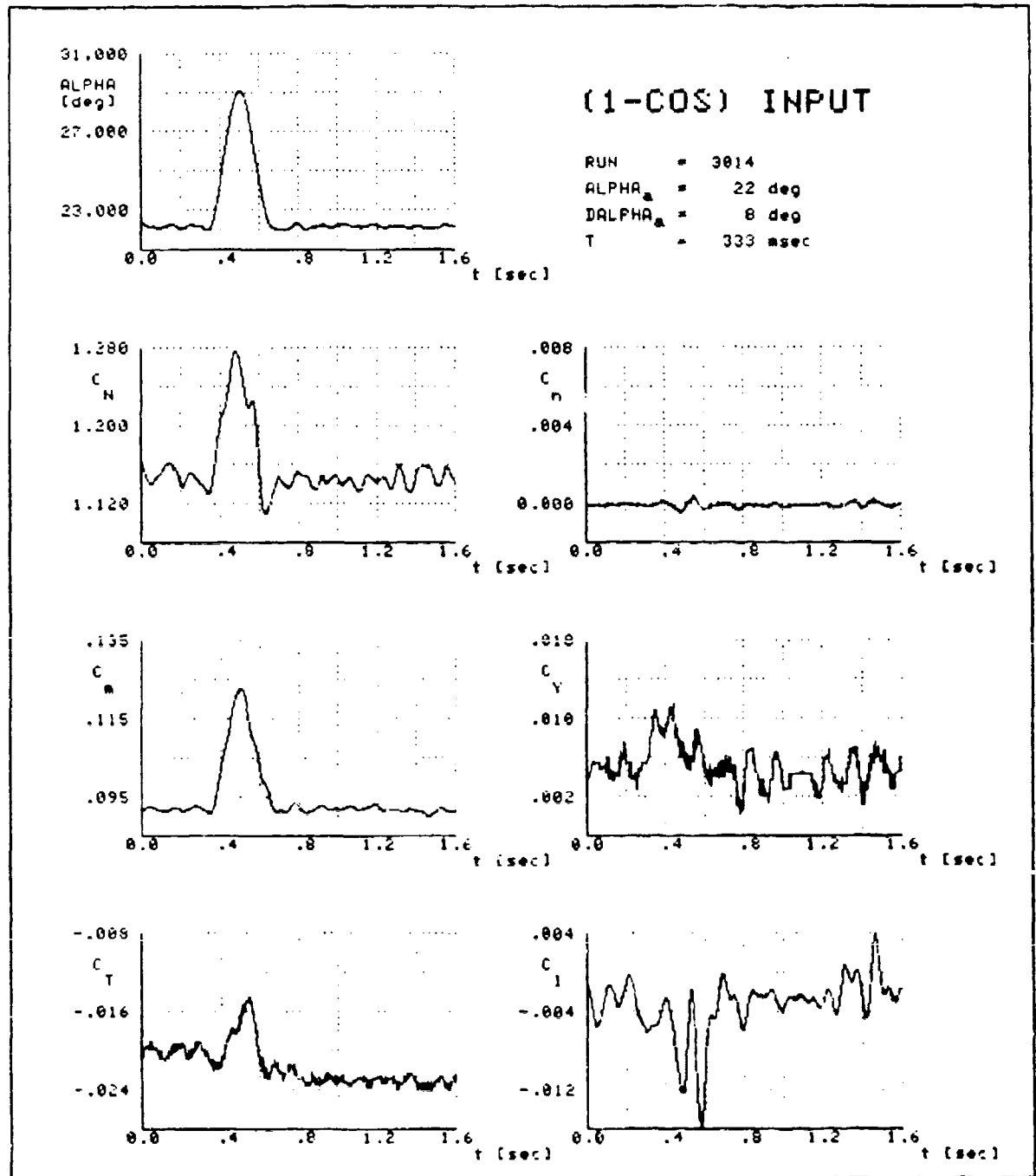
#RV: 10

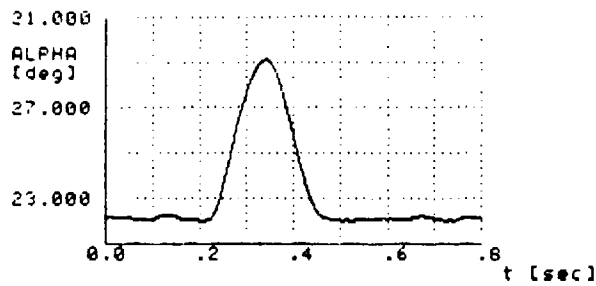


-81A-

APPENDIX B
PLOTS OF TIME HISTORIES OF OVERALL LOADS FOR
(1-COS) INPUTS

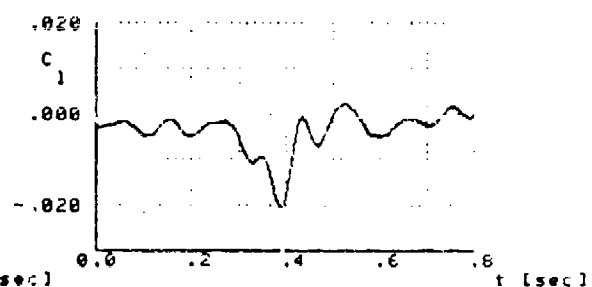
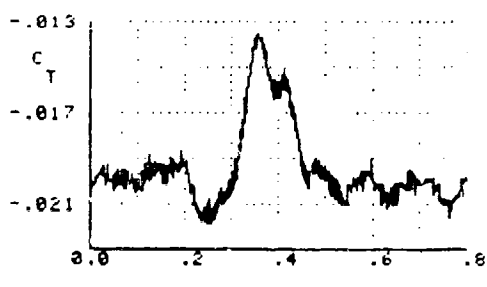
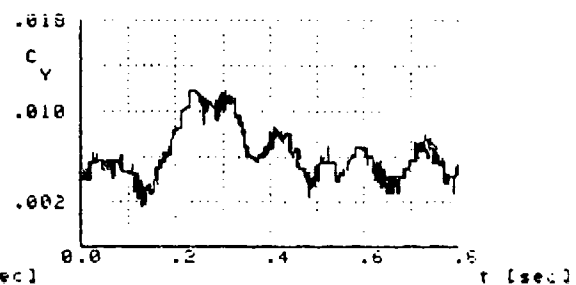
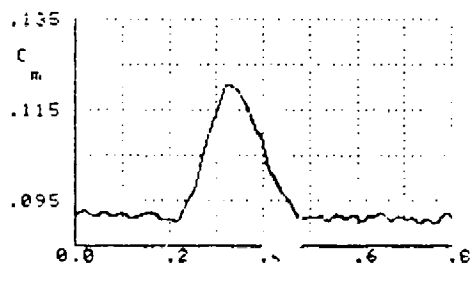
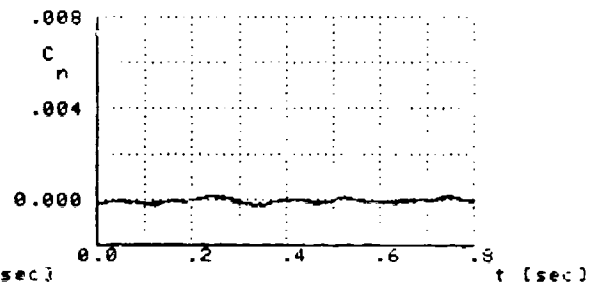
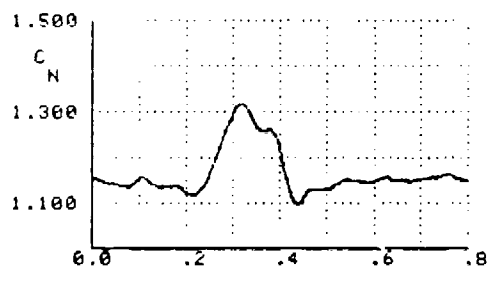


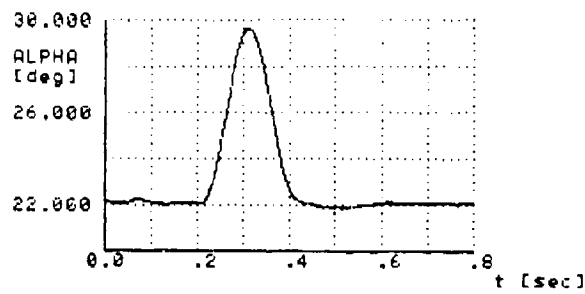




(1-COS) INPUT

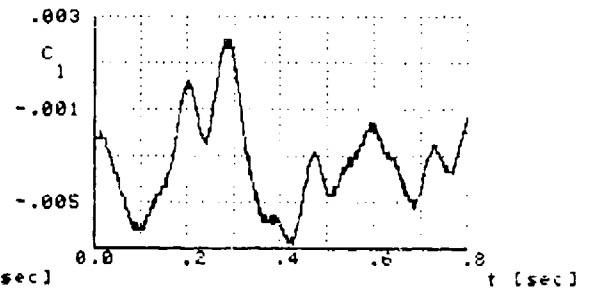
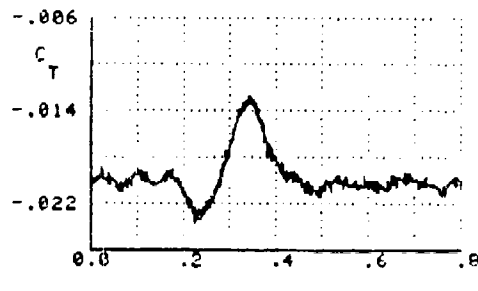
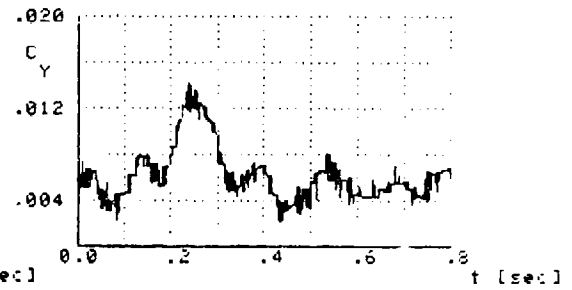
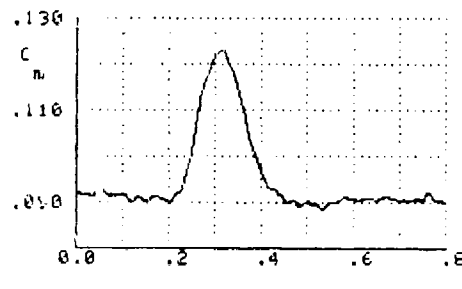
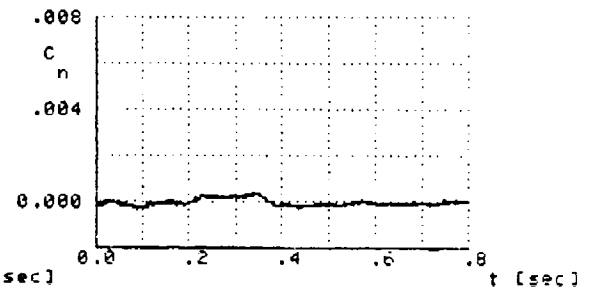
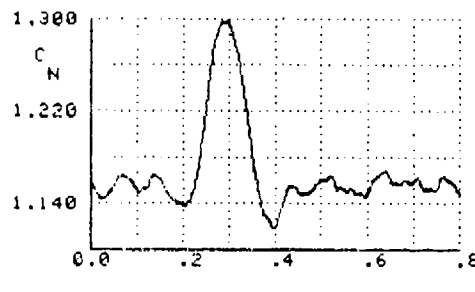
RUN = 3015
 ALPHA_A = 22 deg
 DALPHA_A = 6 deg
 T = 250 msec

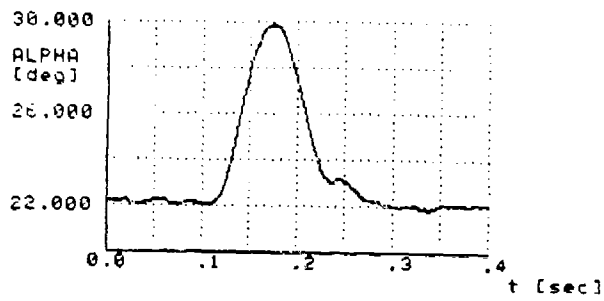




(1-COS) INPUT

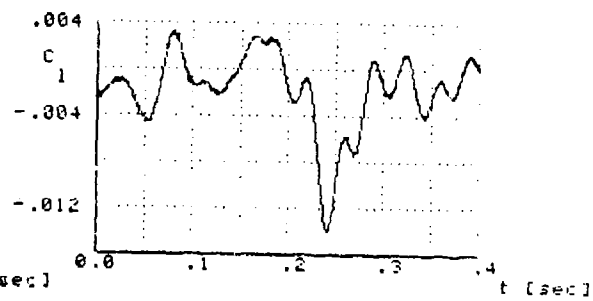
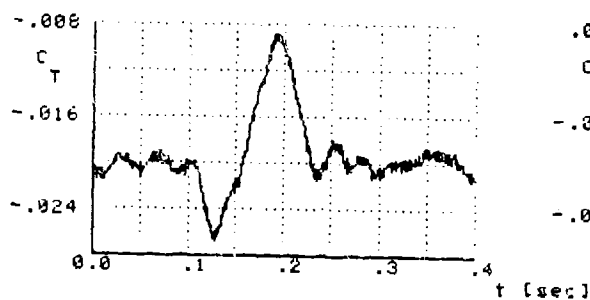
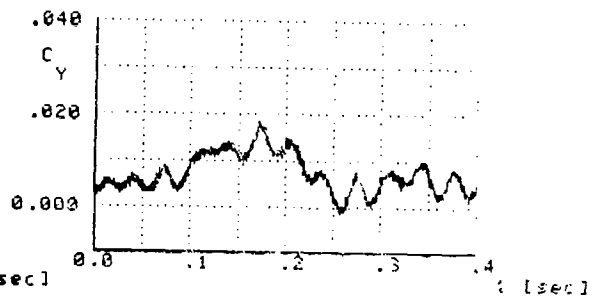
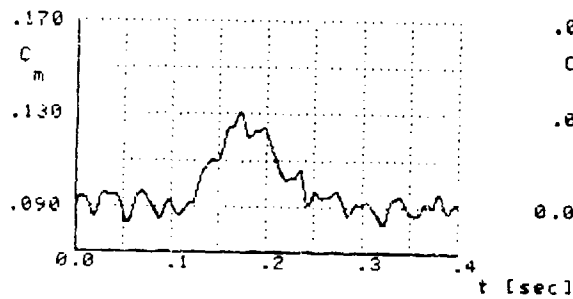
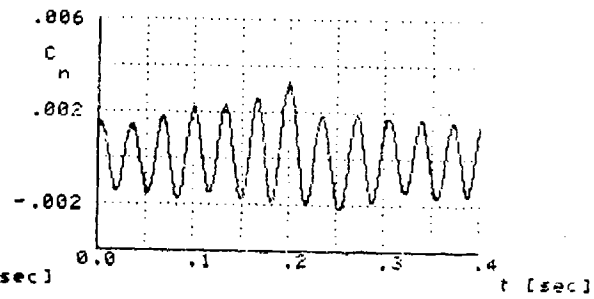
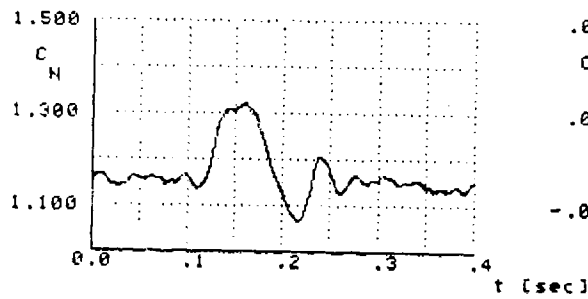
RUN = 3016
 α_a = 22 deg
 $\Delta\alpha_a$ = 8 deg
 T = 200 msec

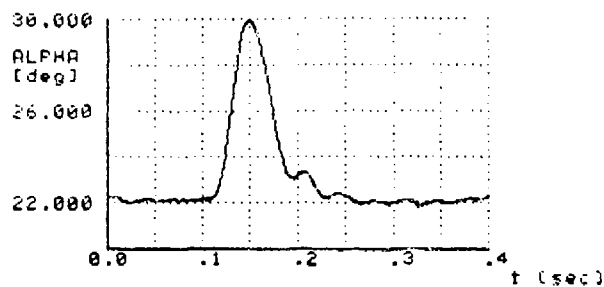




(1-COS) INPUT

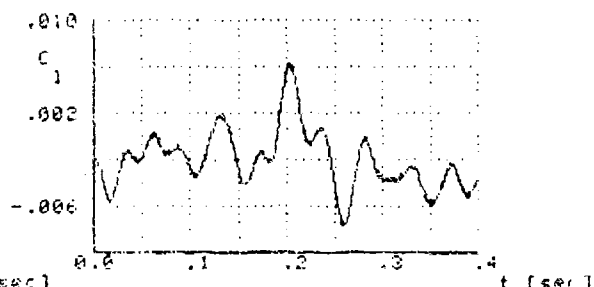
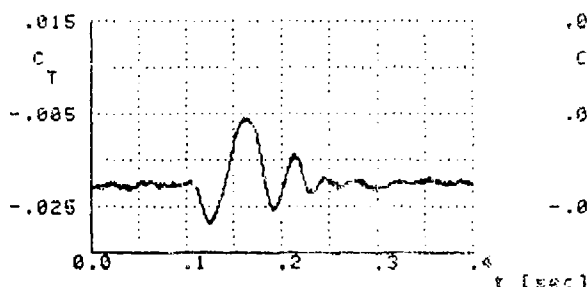
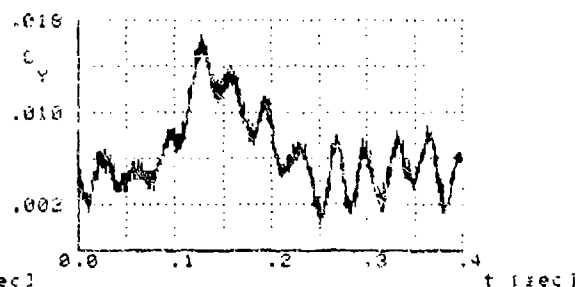
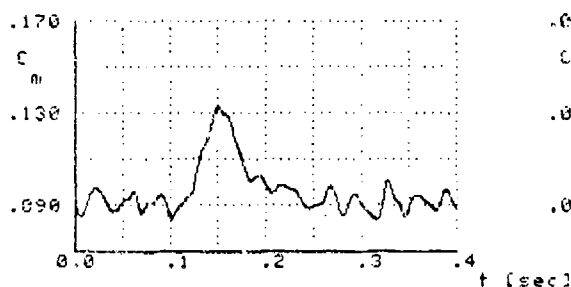
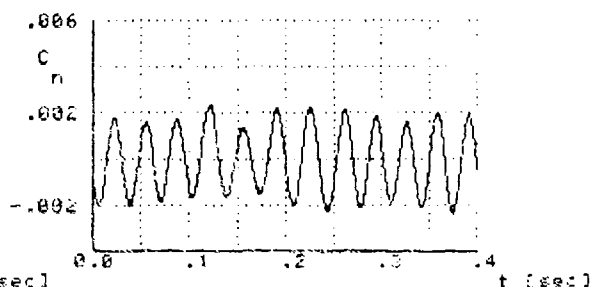
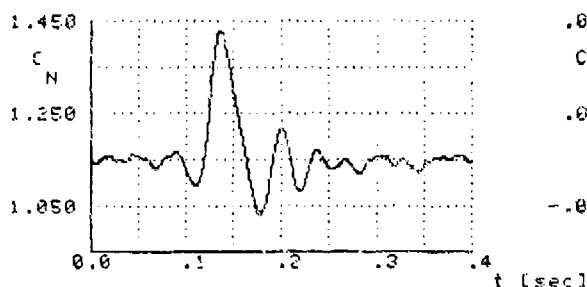
RUN = 3017
 ALPHA_a = 22 deg
 DRALPHA_a = 8 deg
 T = 125 msec

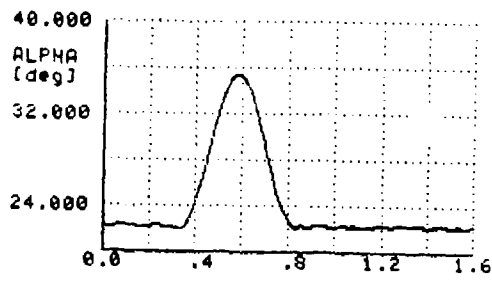




(1-CDS) INPUT

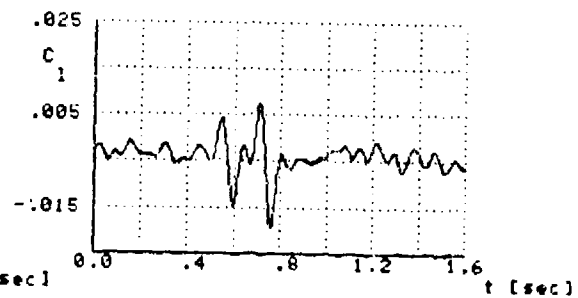
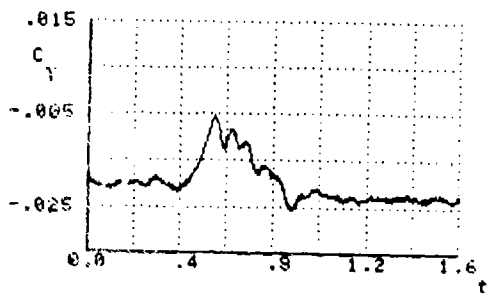
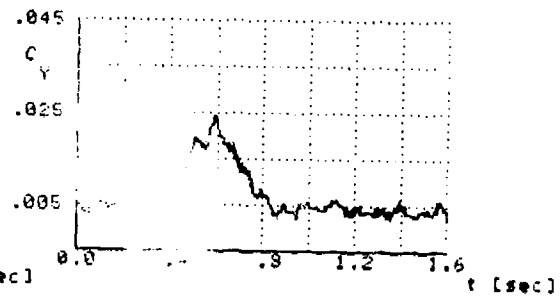
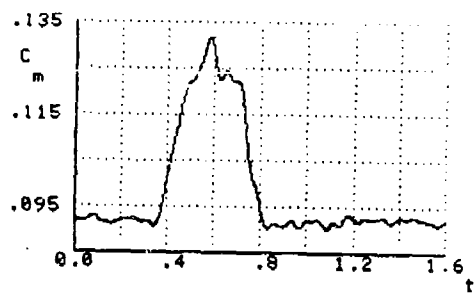
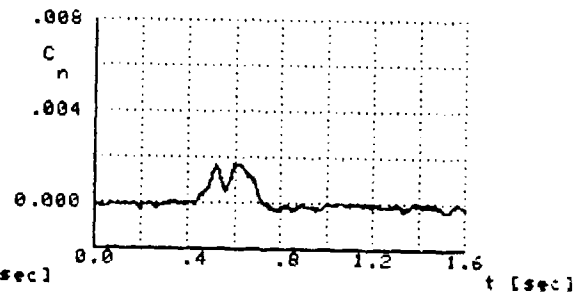
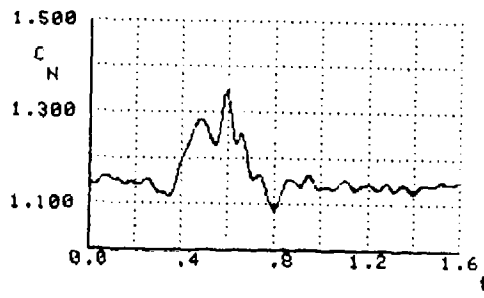
RUN = 3018
 ALPHA_a = 22 deg
 ΔALPHA_a = 8 deg
 T = 83 msec

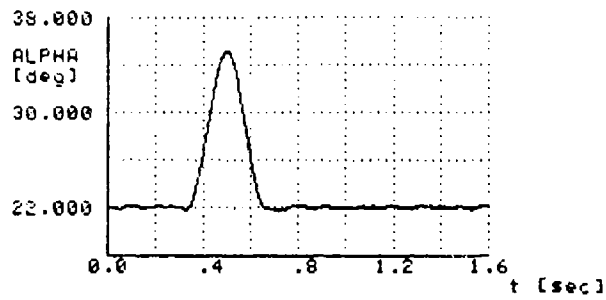




(1-COS) INPUT

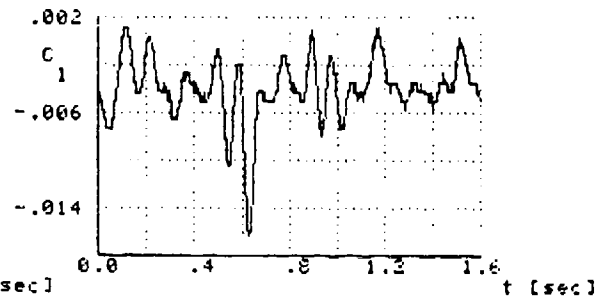
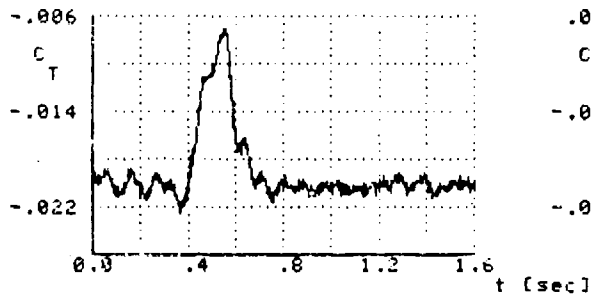
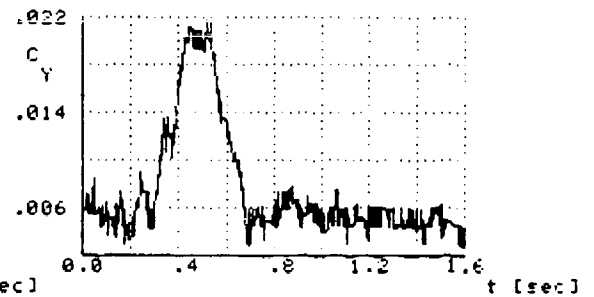
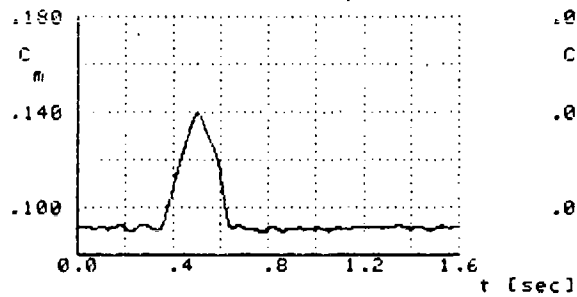
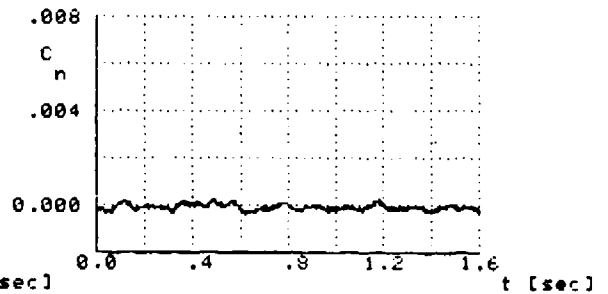
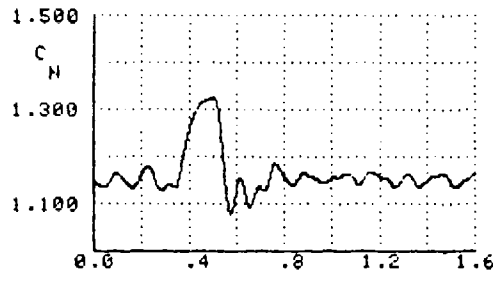
RUN = 3019
 ALPHA_a = 22 deg
 DALPHA_a = 16 deg
 T = 500 msel

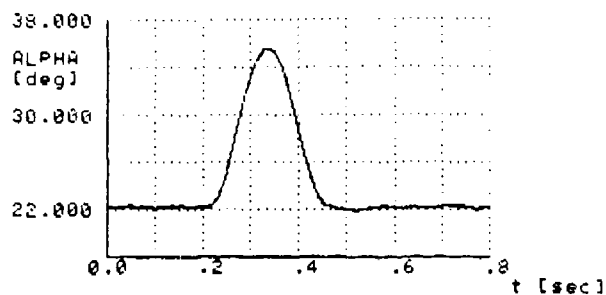




(1-COS) INPUT

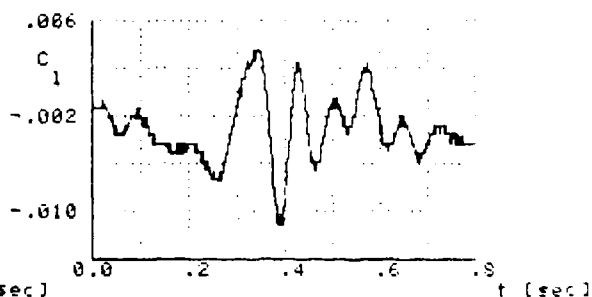
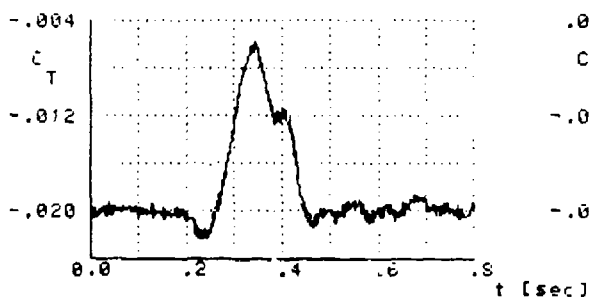
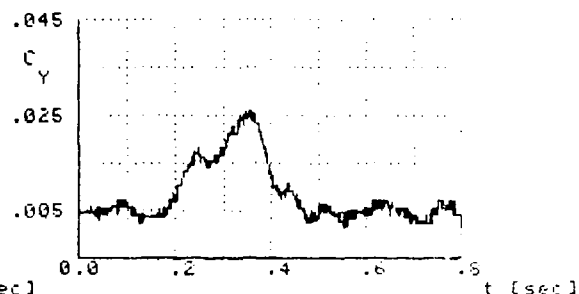
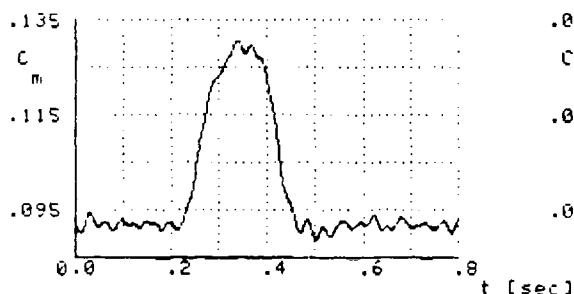
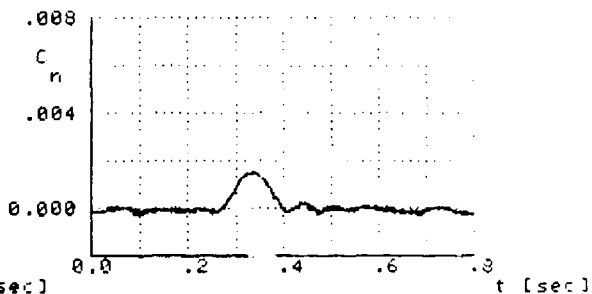
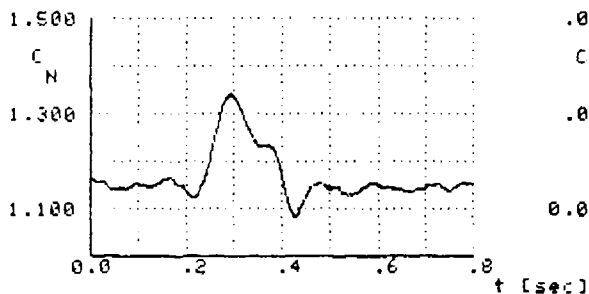
RUN = 3020
 ALPHA_A = 22 deg
 DALPHA_A = 16 deg
 T = 333 msec

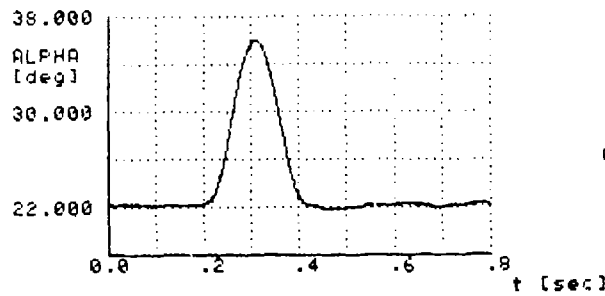




(1-COS) INPUT

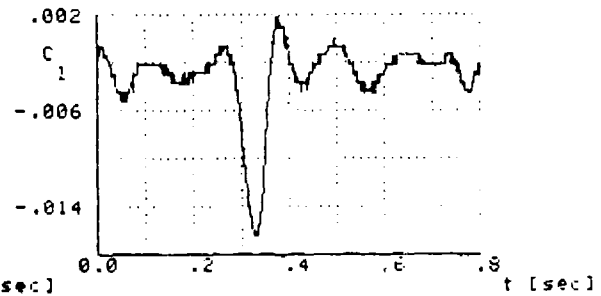
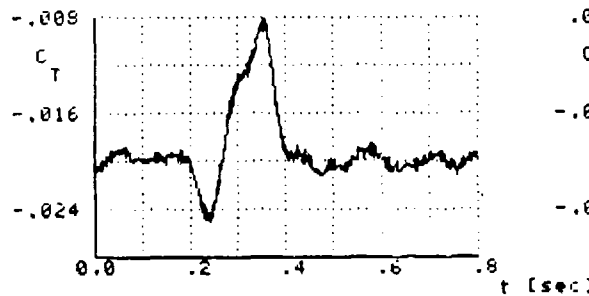
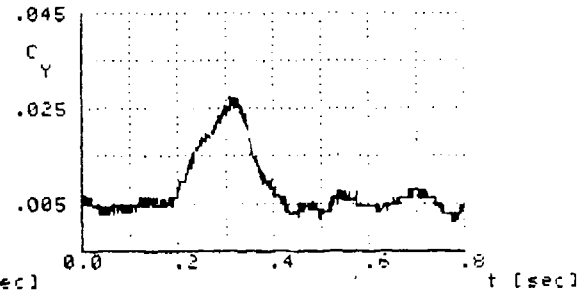
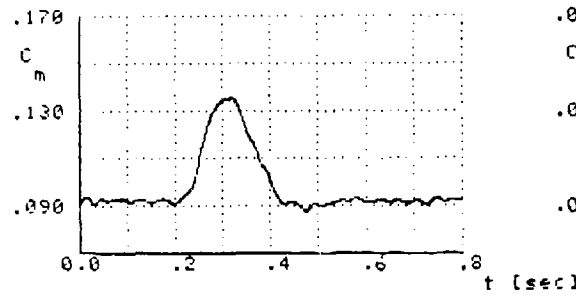
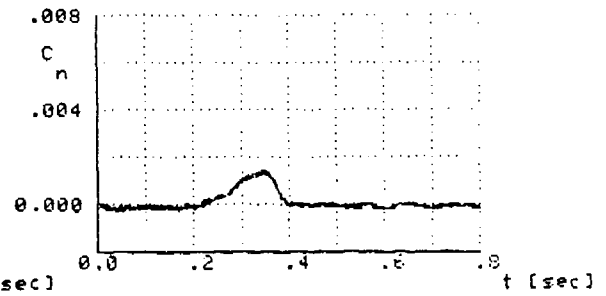
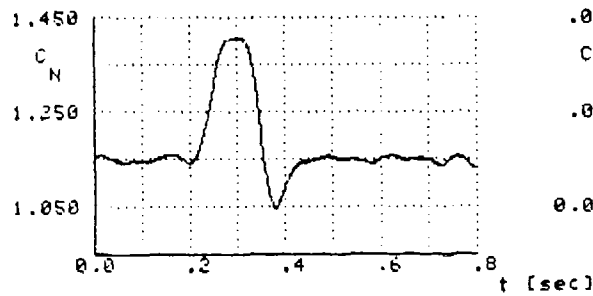
RUN = 3021
 ALPHA_a = 22 deg
 DALPHA_a = 16 deg
 T = 250 msec

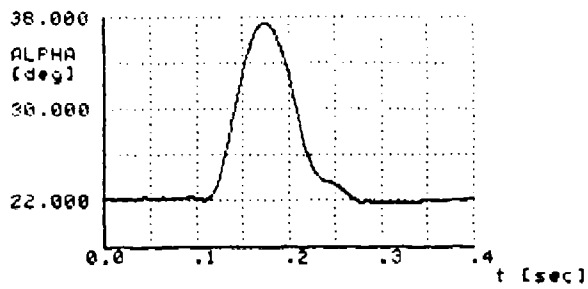




(1-COS) INPUT

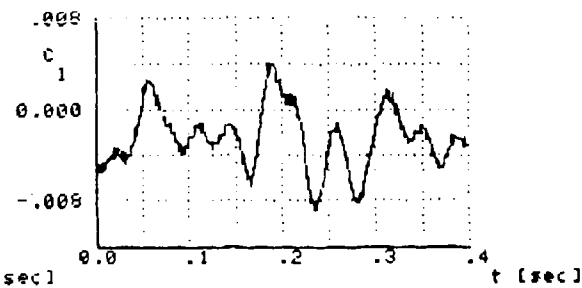
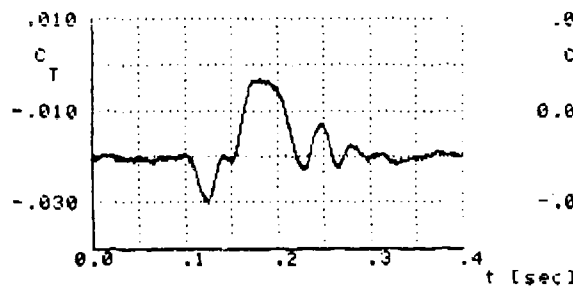
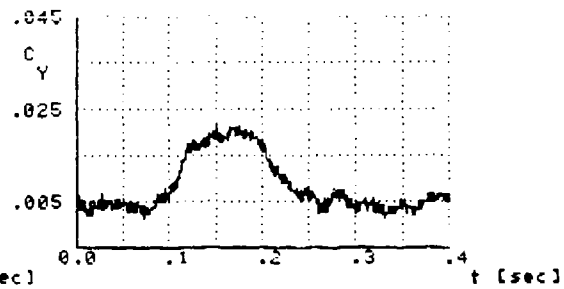
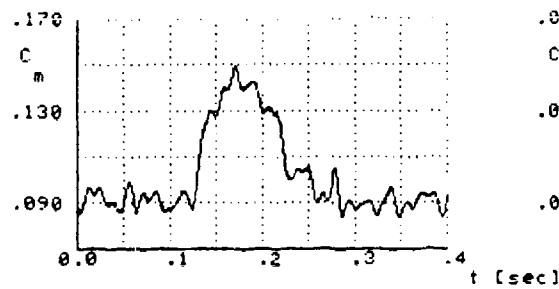
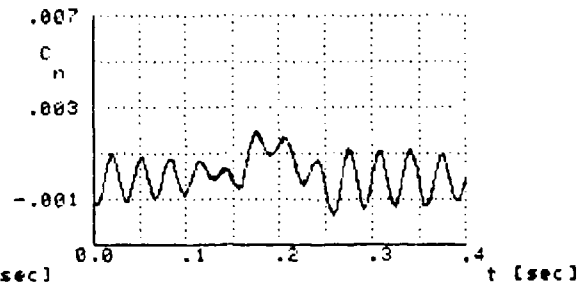
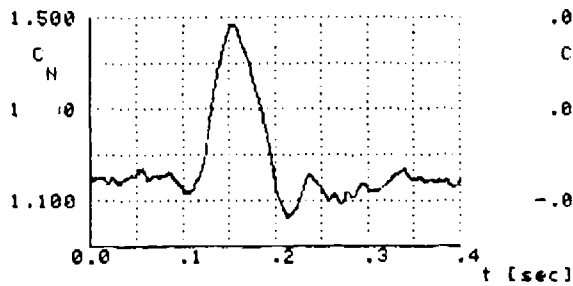
RUN = 3022
ALPHA_a = 22 deg
DRLPHA_a = 16 deg
T = 200 msec

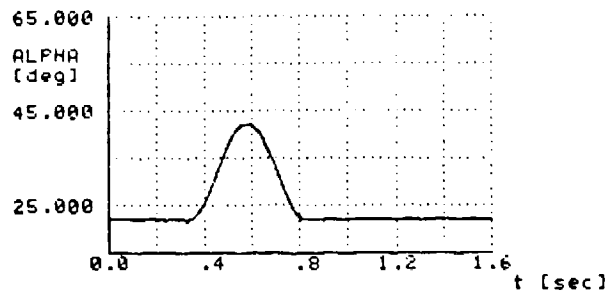




(1-COS) INPUT

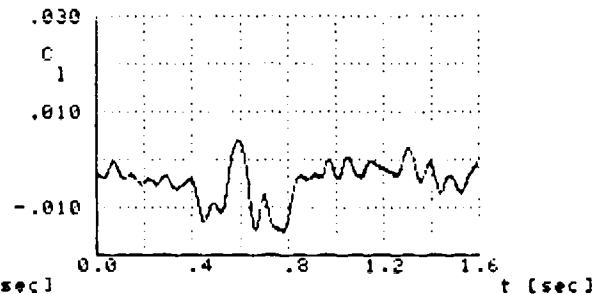
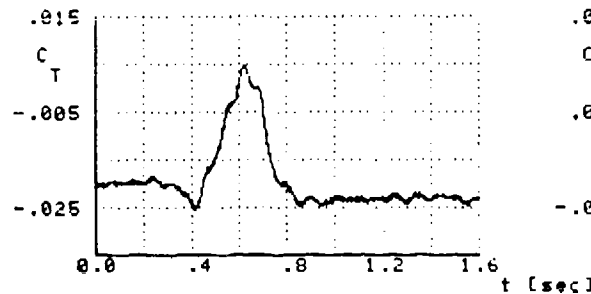
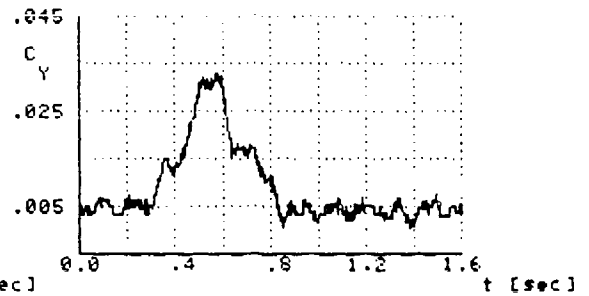
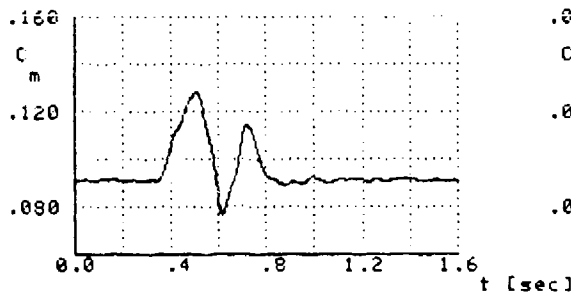
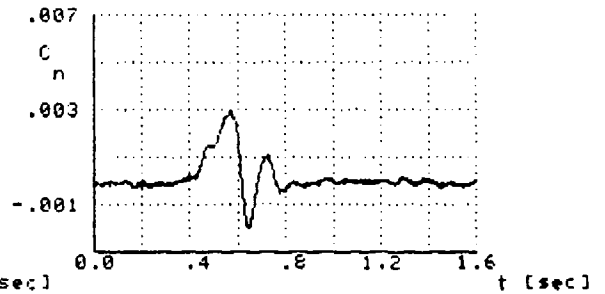
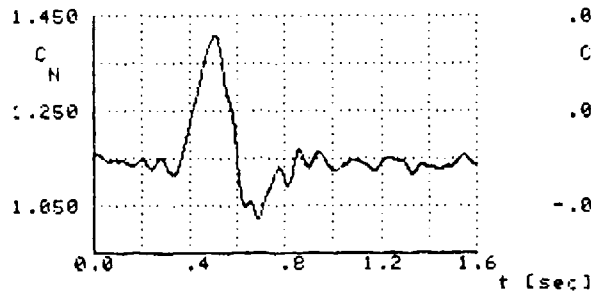
RUN = 3023
 ALPHA_a = 22 deg
 DRALPHA_a = 16 deg
 T = 125 msec

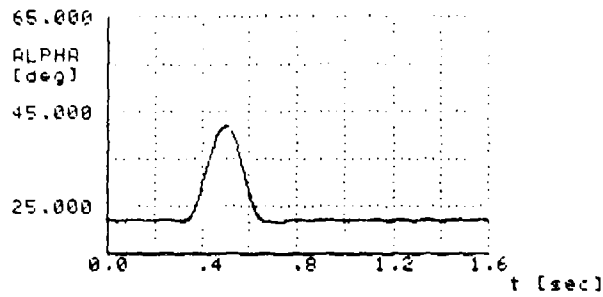




(1-COS) INPUT

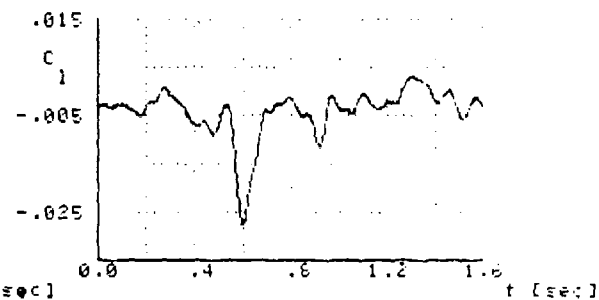
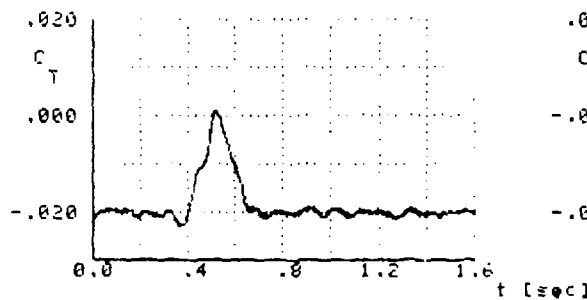
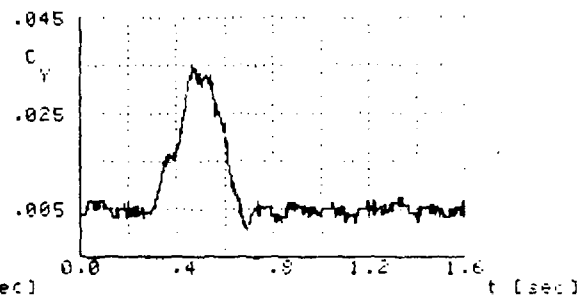
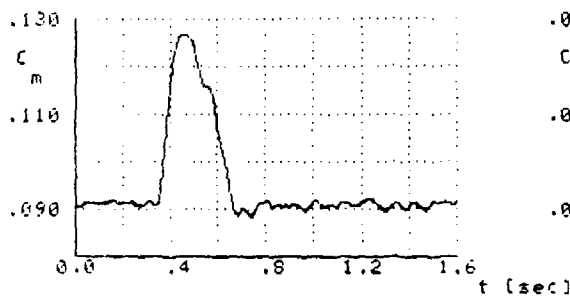
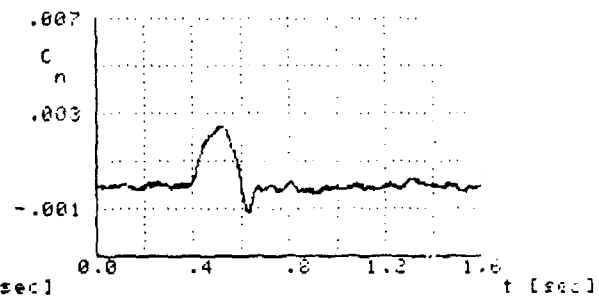
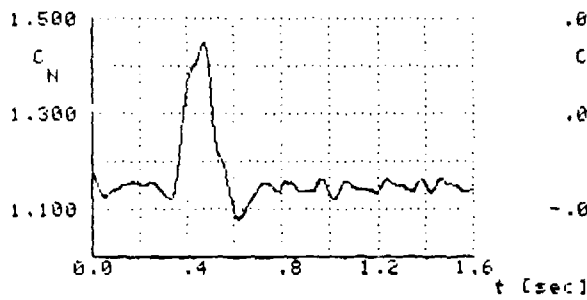
RUN = 3024
 ALPHA_a = 22 deg
 DALPHA_a = 24 deg
 T = 500 msec

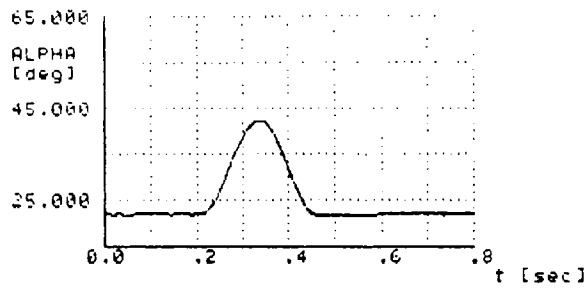




(1-COS) INPUT

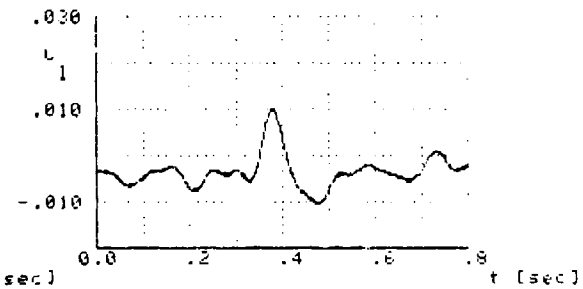
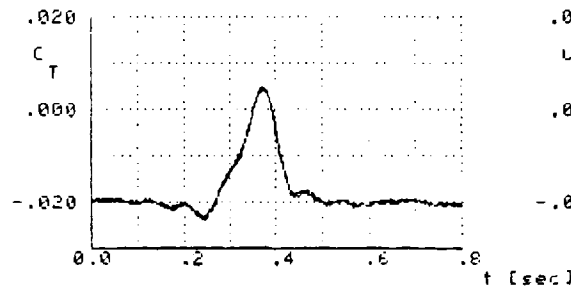
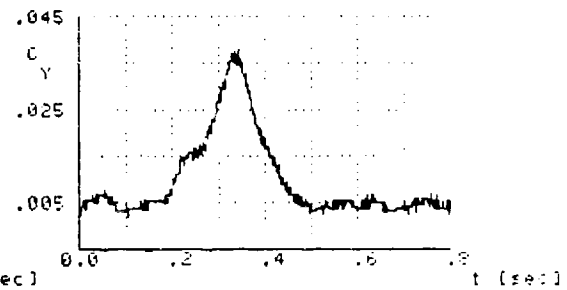
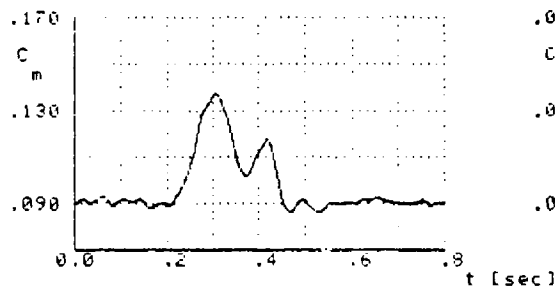
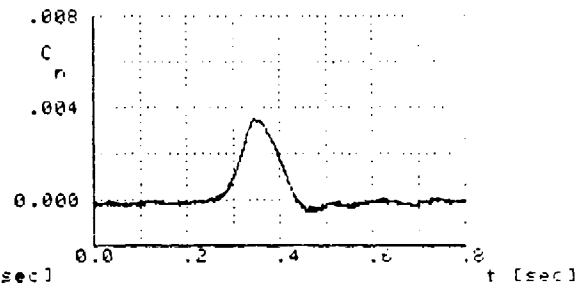
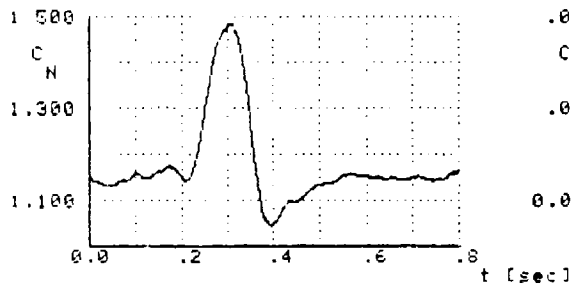
RUN = 3025
 ALPHA_a = 22 deg
 DIALPHA_a = 24 deg
 T = 333 msec

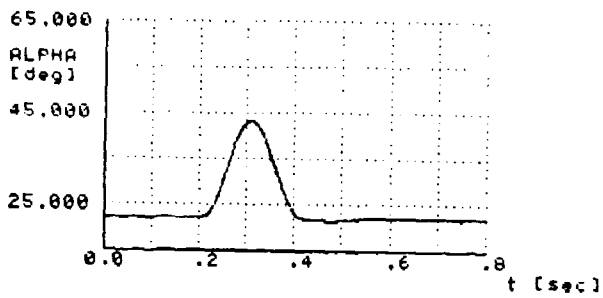




(1-COS) INPUT

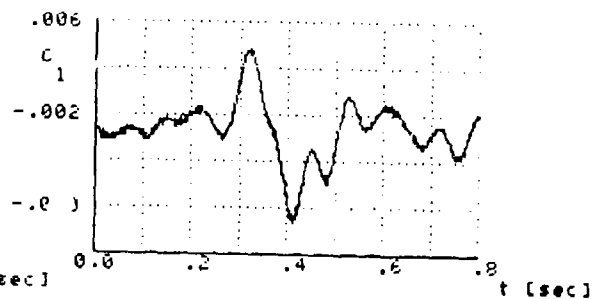
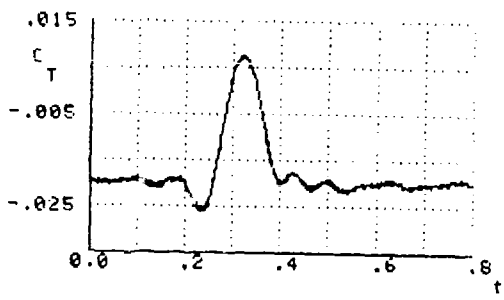
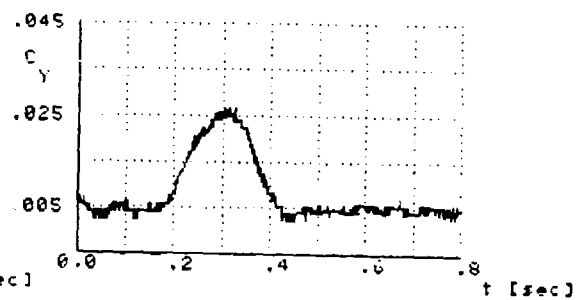
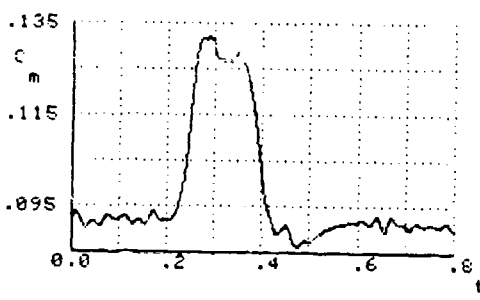
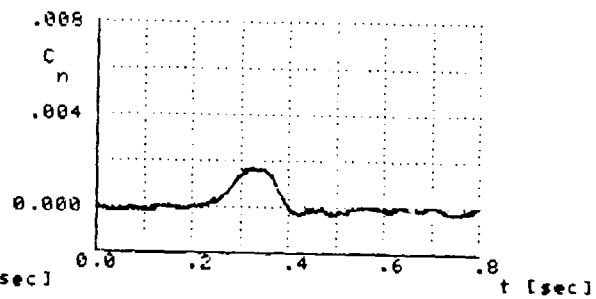
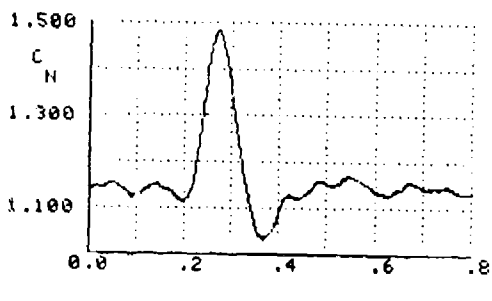
RUN = 3026
 $\text{ALPHA}_a = 22 \text{ deg}$
 $\text{DALPHA}_a = 24 \text{ deg}$
 $T = 250 \text{ msec}$

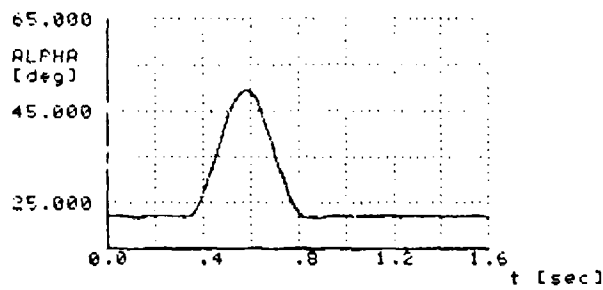




(1-COS) INPUT

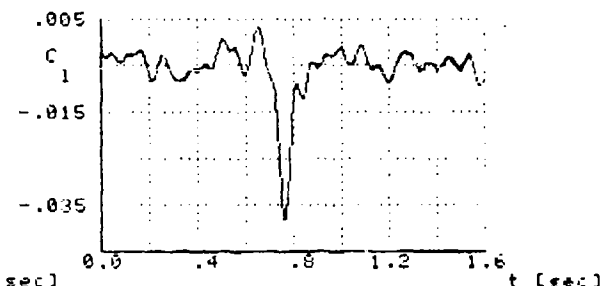
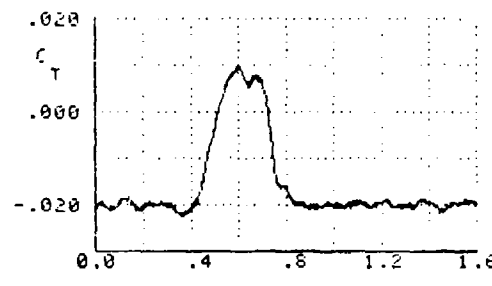
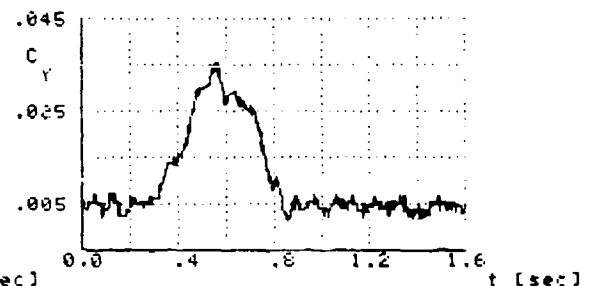
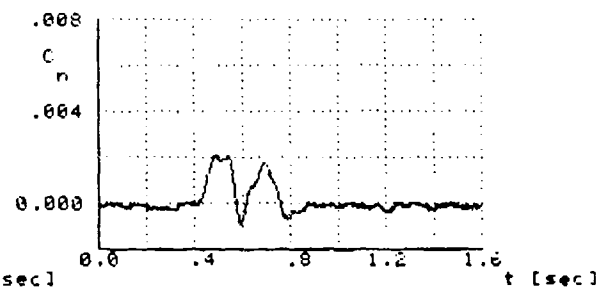
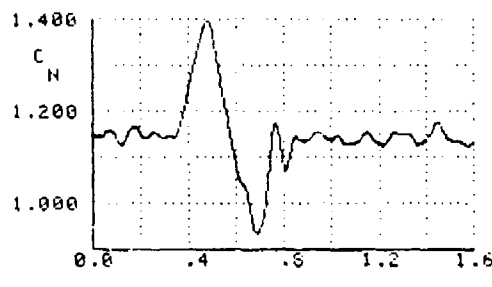
RUN = 3027
 ALPHA_a = 22 deg
 DALPHA_a = 24 deg
 T = 200 msec

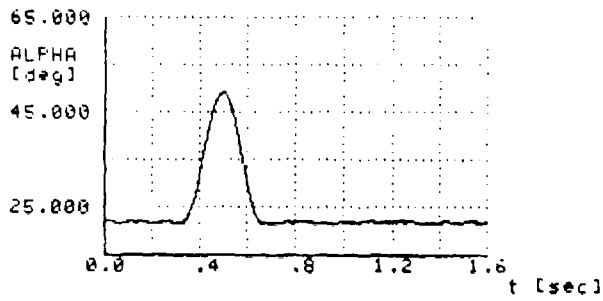




(1-COS) INPUT

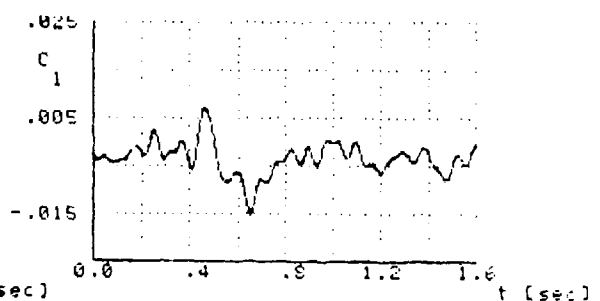
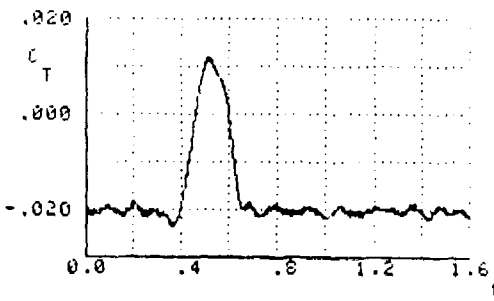
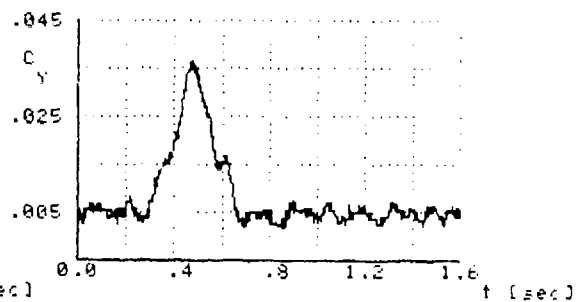
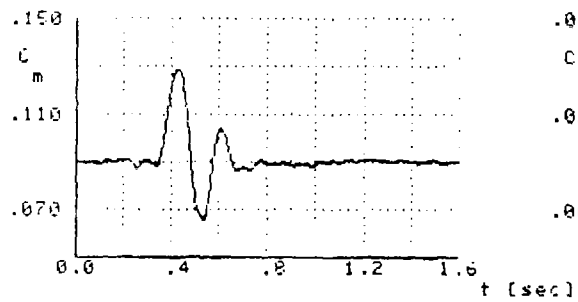
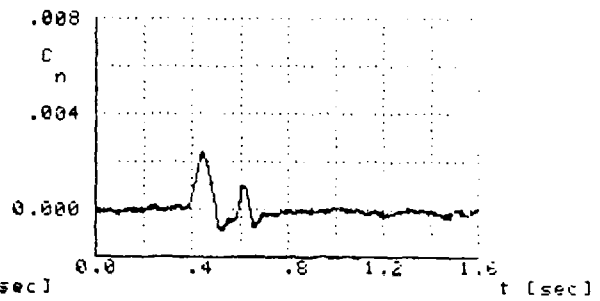
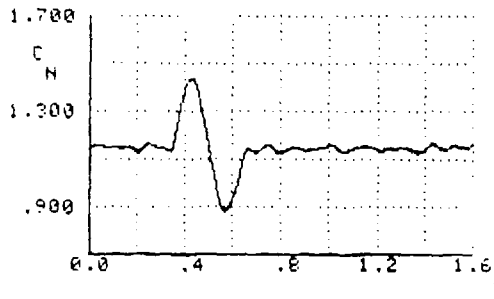
RUN = 3028
 ALPHA_a = 22 deg
 DALPHA_a = 32 deg
 T = 500 msec

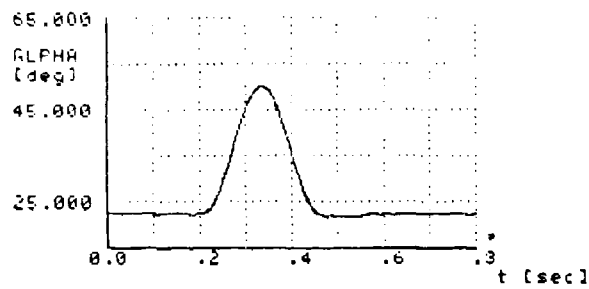




(1-COS) INPUT

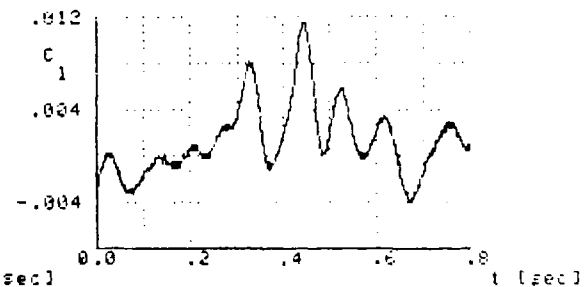
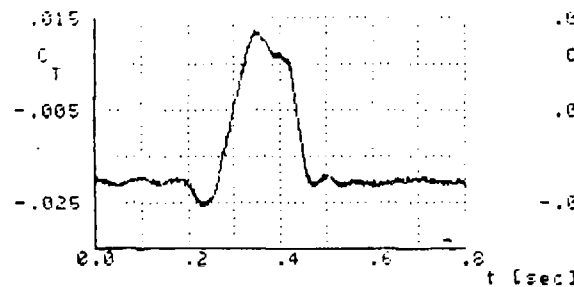
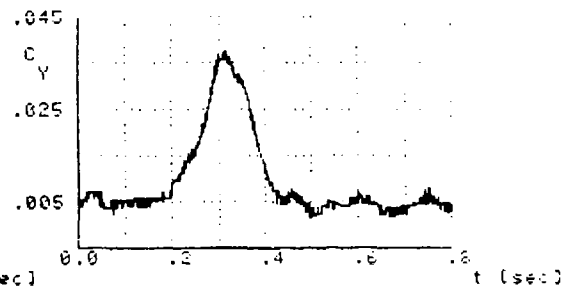
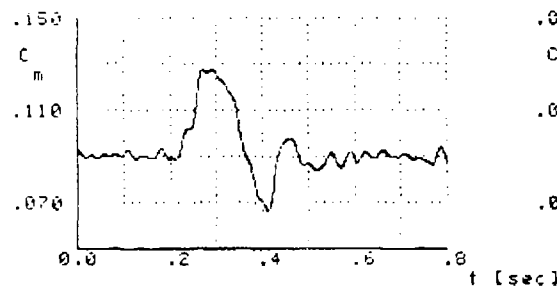
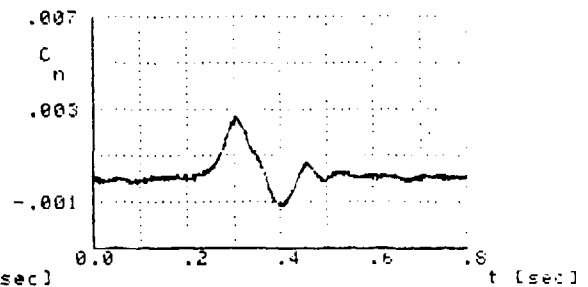
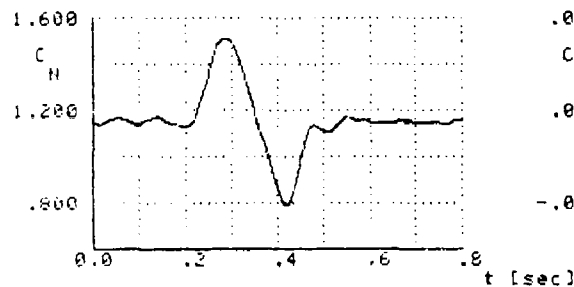
RUN = 3029
ALPHA_a = 22 deg
DALPHA_a = 32 deg
T = 333 msec





(1-COS) INPUT

RUN = 3030
 α_a = 22 deg
 $\Delta\alpha_a$ = 32 deg
 T = 250 msec



65.00

ALPHA
(deg)

45.000

25.000

t [sec]

(1-COS) INPUT

RUN = 3031

ALPHA_a = 22 deg

DALPHA_a = 32 deg

T = 200 msec

1.700

C_N

1.300

.900

t [sec]

.008

C_n

.004

0.000

t [sec]

.170

C_m

.130

.090

t [sec]

.045

C_y

.025

.005

t [sec]

.020

C_T

.000

-.020

t [sec]

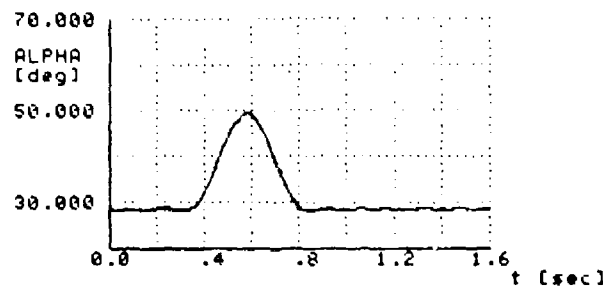
.010

C_l

.002

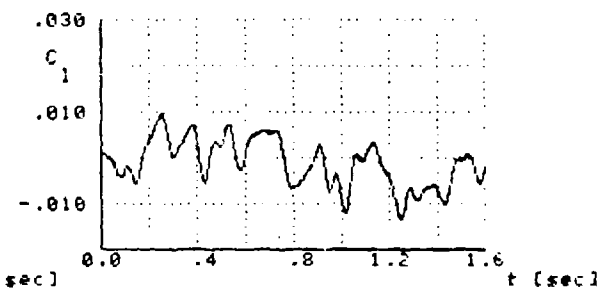
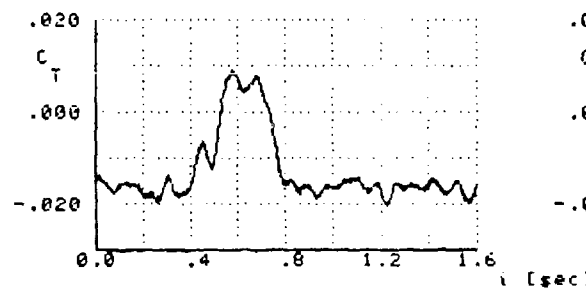
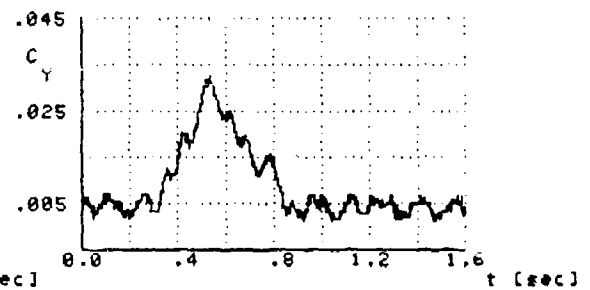
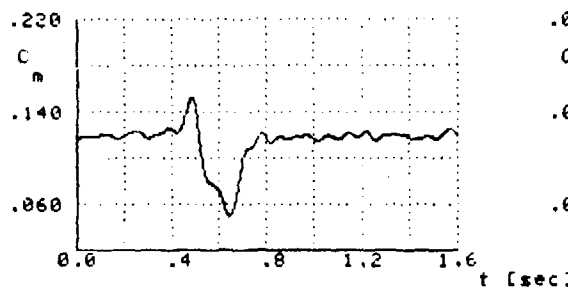
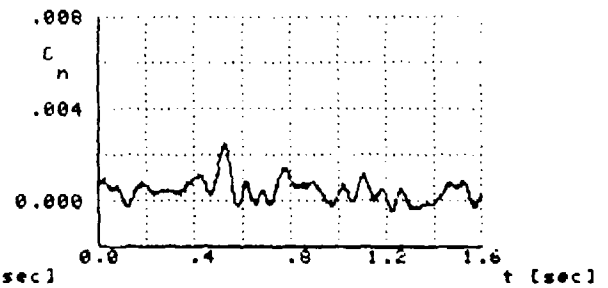
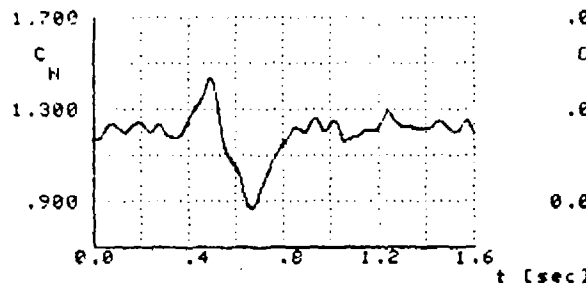
-.006

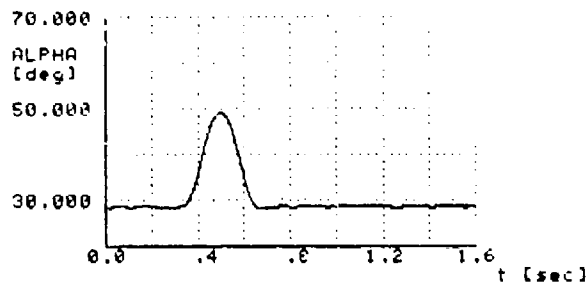
t [sec]



(1-COS) INPUT

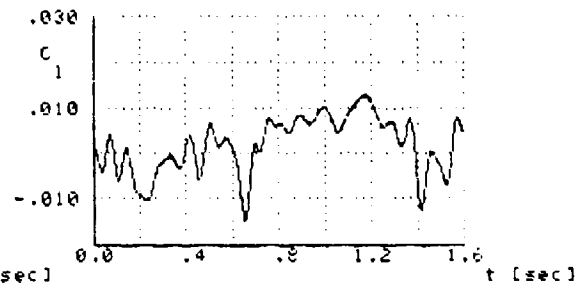
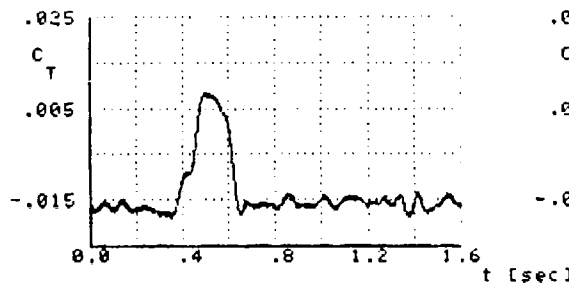
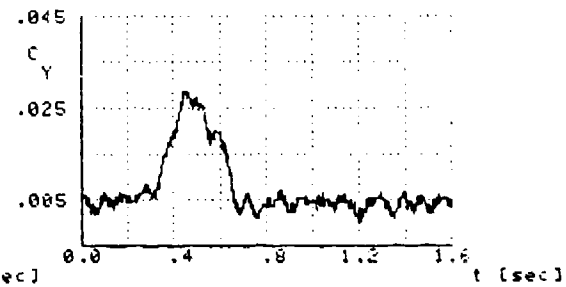
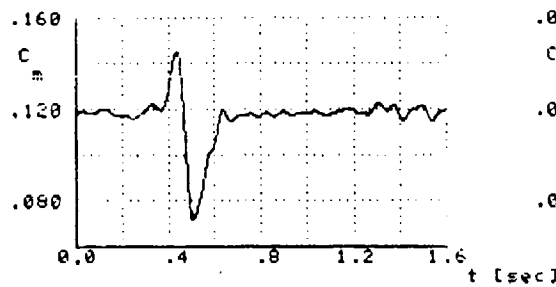
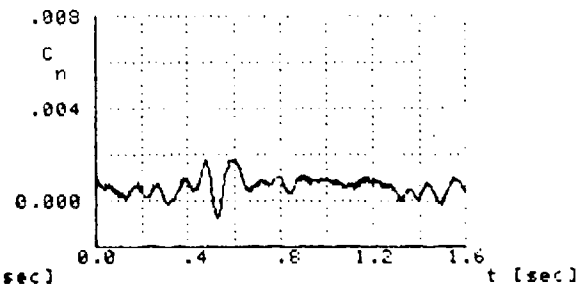
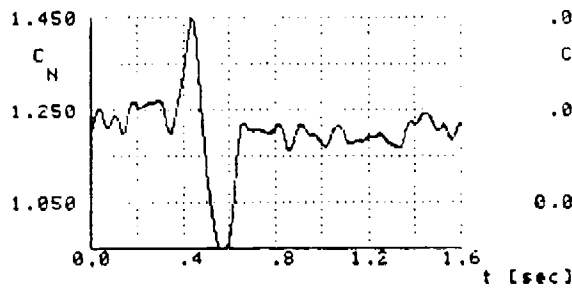
RUN = 3032
ALPHA₀ = 30 deg
DALPHA₀ = 24 deg
T = 500 msec

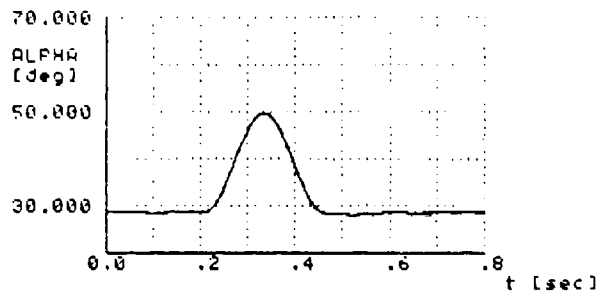




(1-COS) INPUT

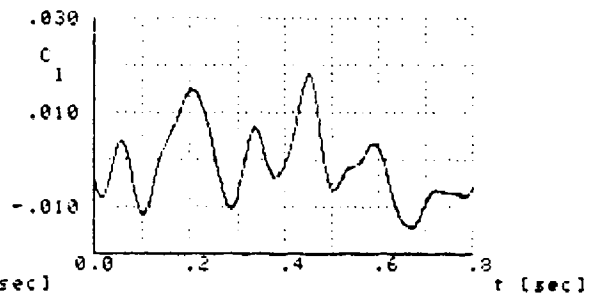
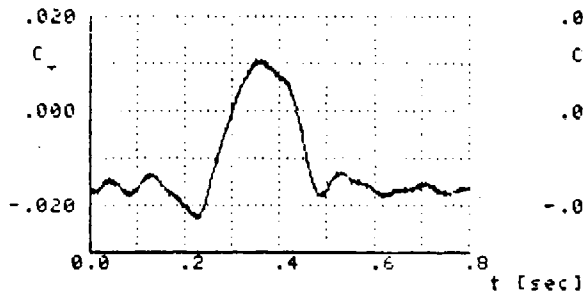
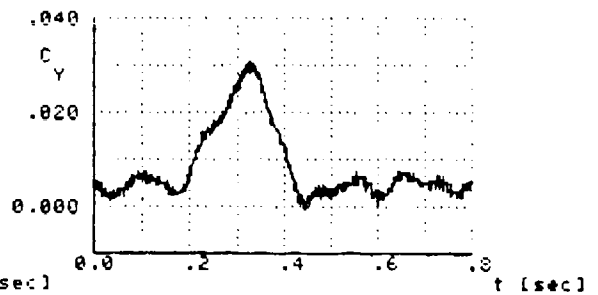
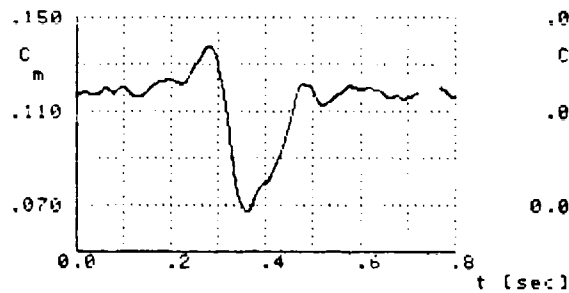
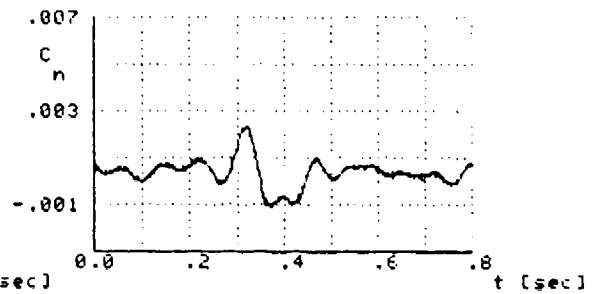
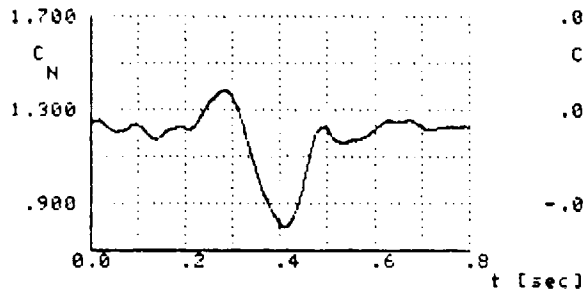
RUN = 3033
ALPHA_a = 30 deg
DALPHA_a = 24 deg
T = 333 msec

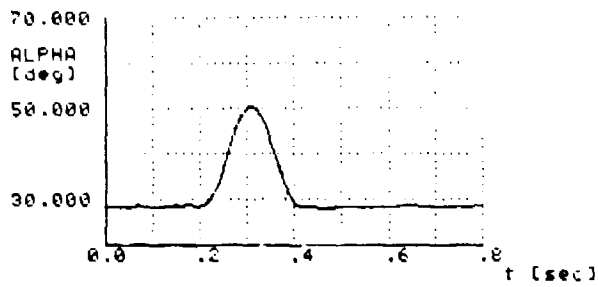




(1-COS) INPUT

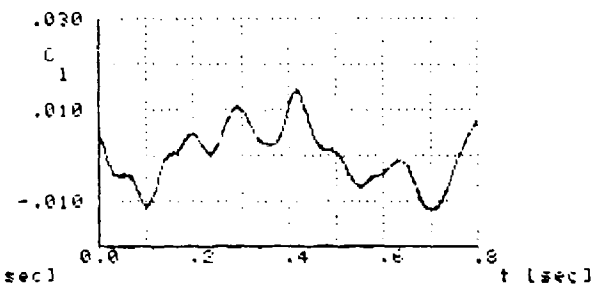
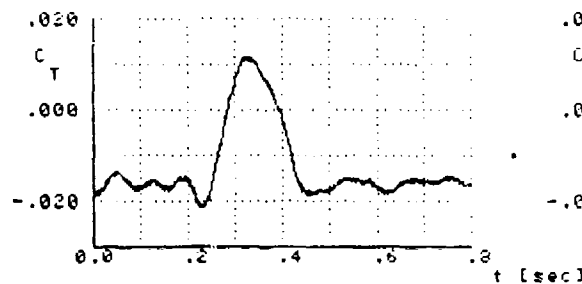
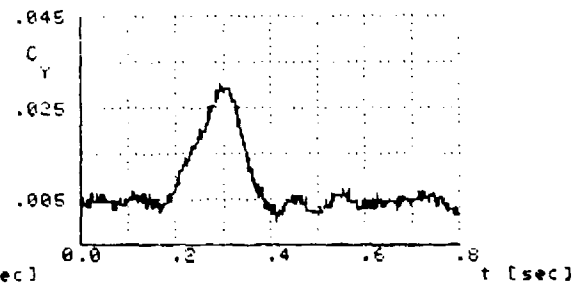
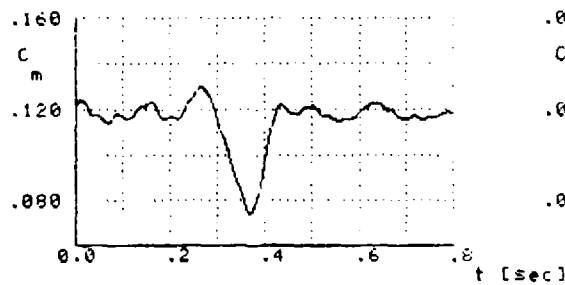
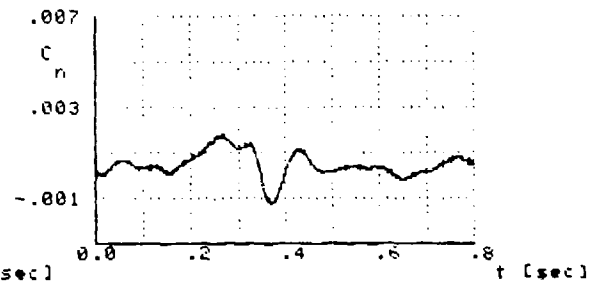
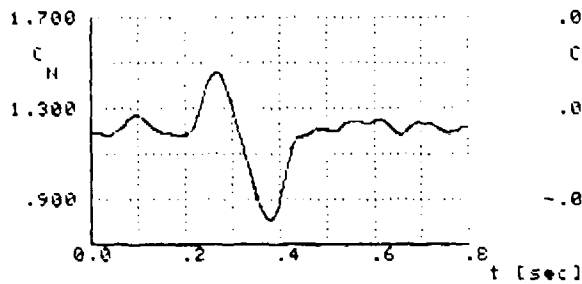
RUN = 3034
 ALPHA = 30 deg
 DALPHA = 24 deg
 T = 250 msec

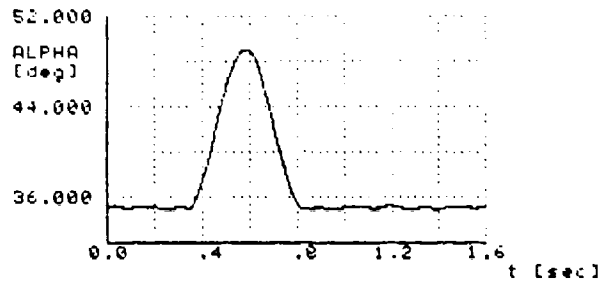




(1-COS) INPUT

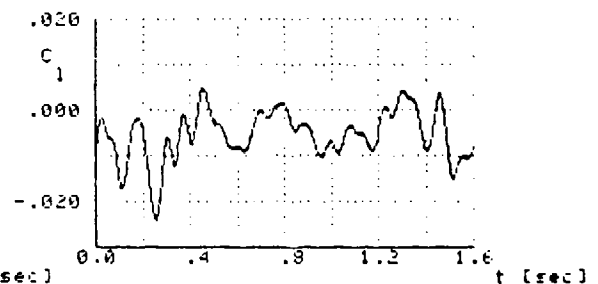
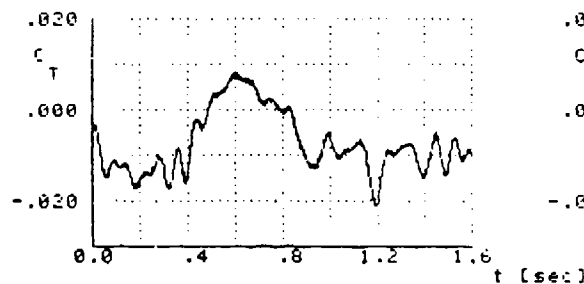
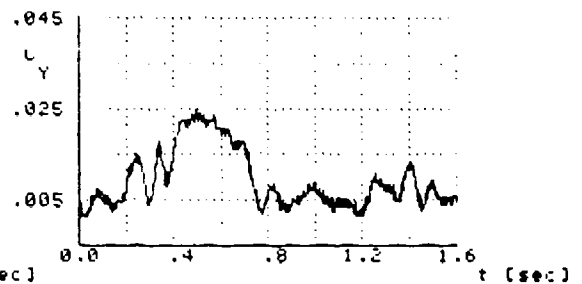
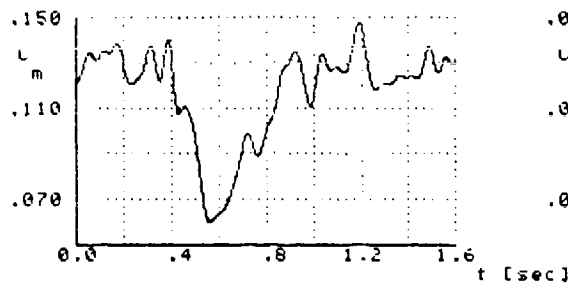
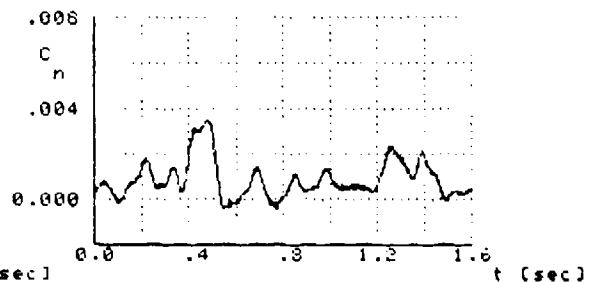
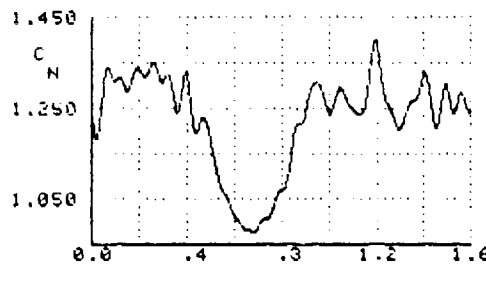
RUN = 3035
 ALPHA = 30 deg
 DALPHA = 24 deg
 T = 200 msec

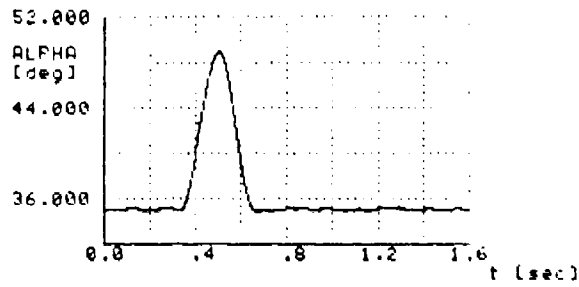




(1-COS) INPUT

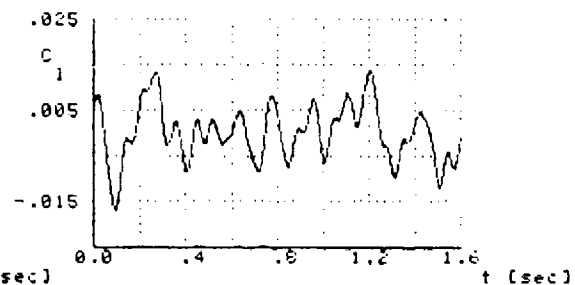
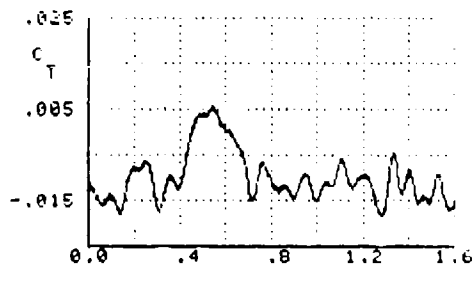
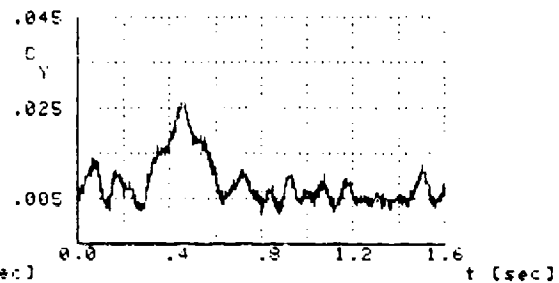
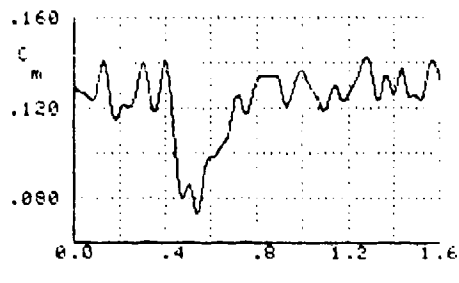
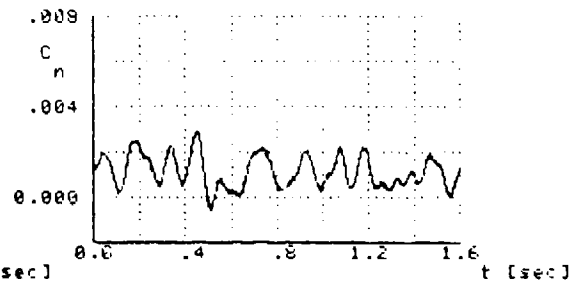
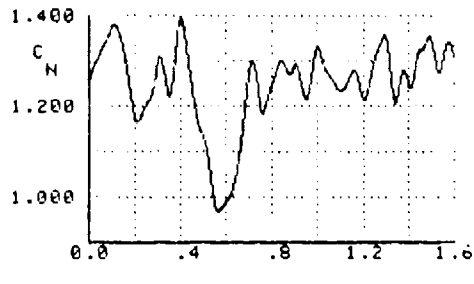
RUN = 3036
 ALPHA_a = 38 deg
 DALPHA_a = 16 deg
 T = 500 msec

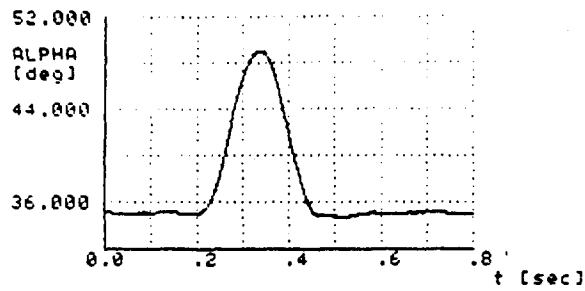




(1-COS) INPUT

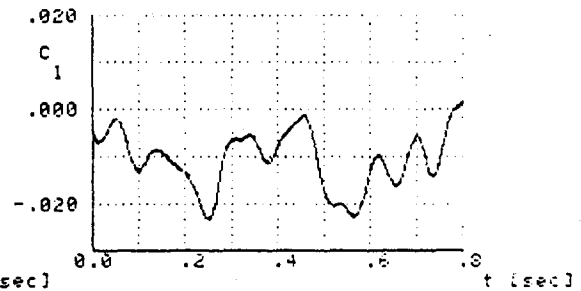
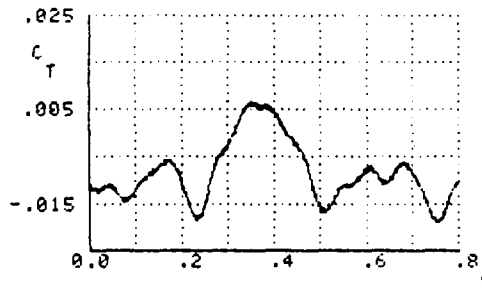
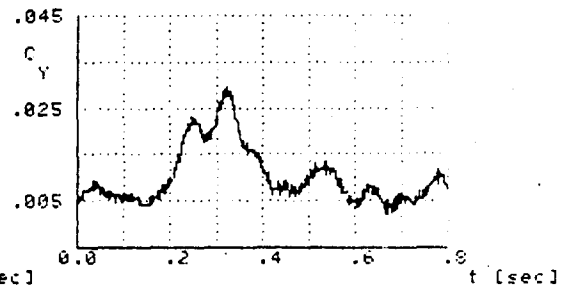
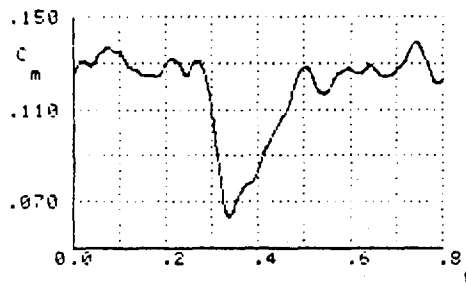
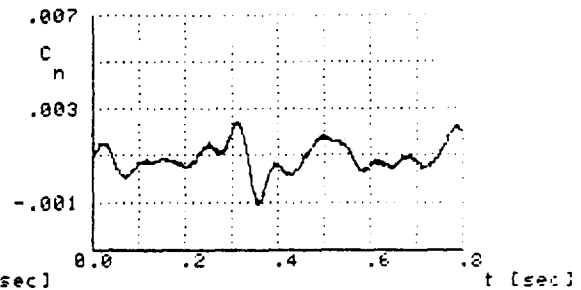
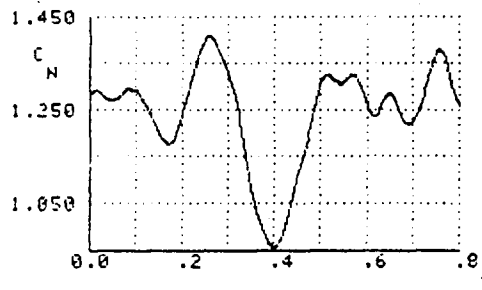
RUN = 3037
 ALPHA_a = 38 deg
 D_{ALPHA} = 16 deg
 T = 333 msec

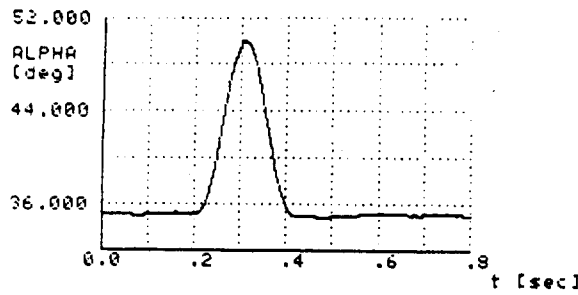




(1-COS) INPUT

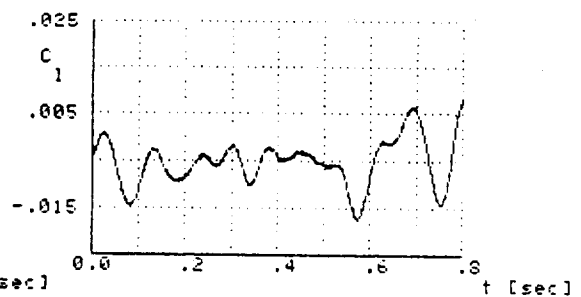
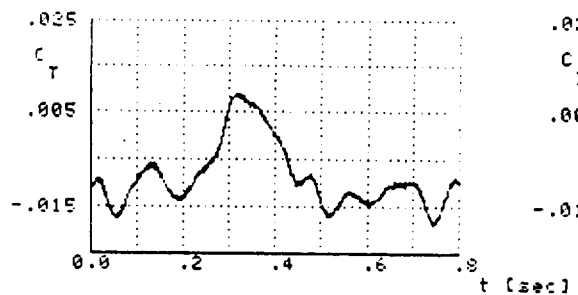
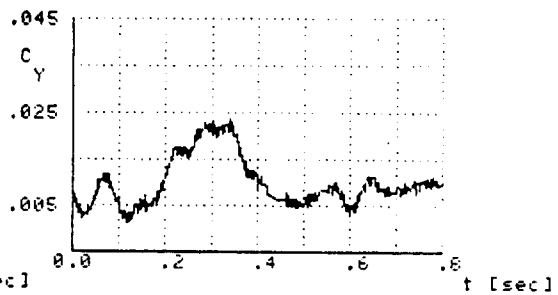
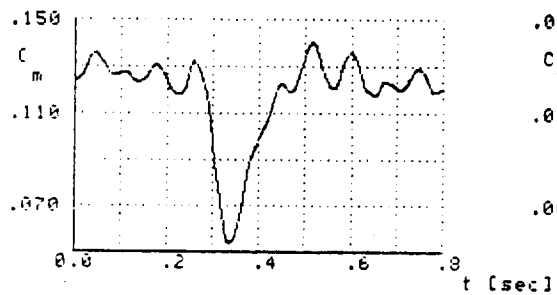
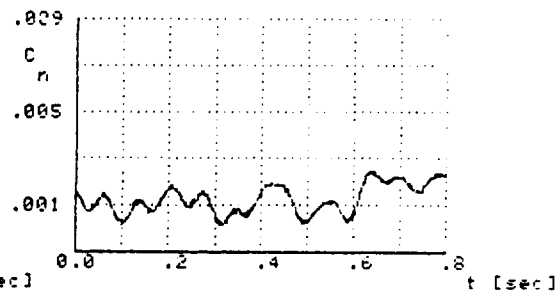
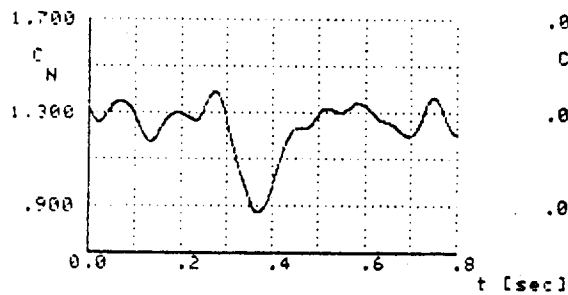
RUN = 3038
 ALPHA_a = 30 deg
 DIALPHA_a = 16 deg
 T = 250 msec

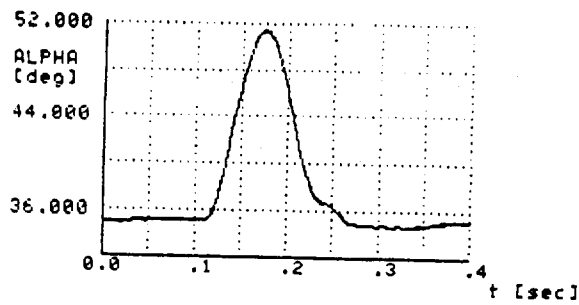




(1-COS) INPUT

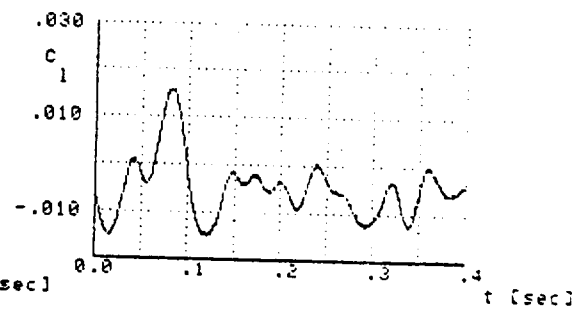
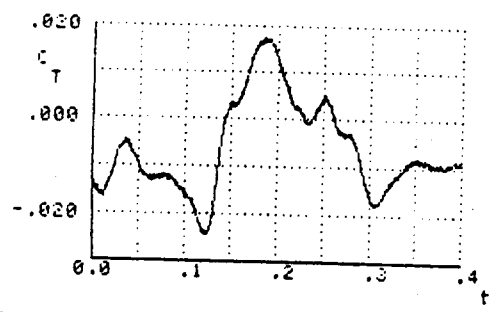
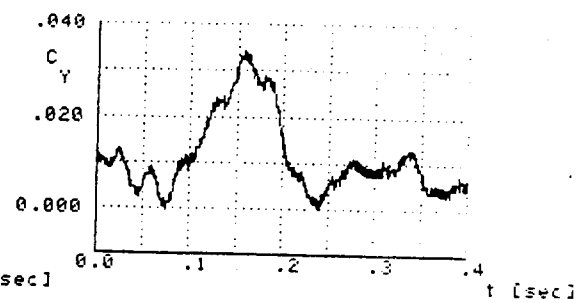
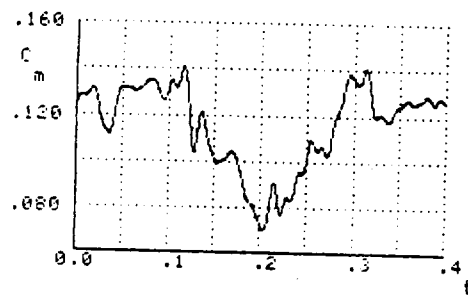
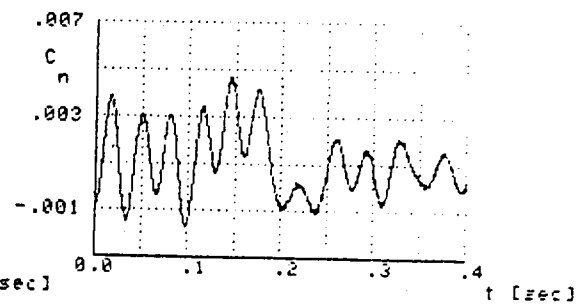
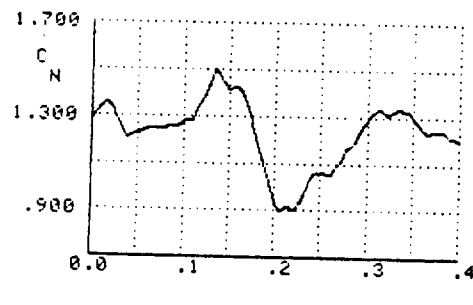
RUN = 3039
ALPHA_a = 38 deg
DALPHA_a = 16 deg
T = 200 msec

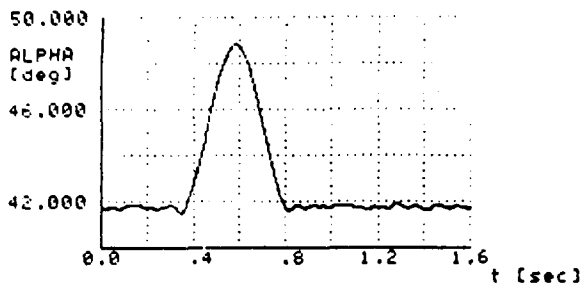




(1-COS) INPUT

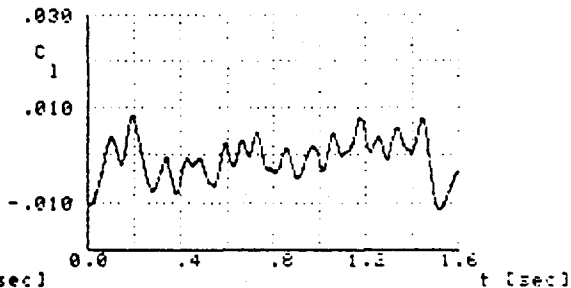
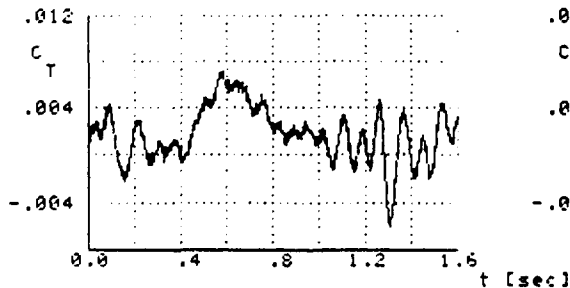
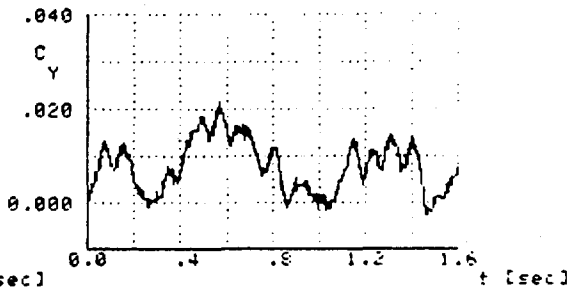
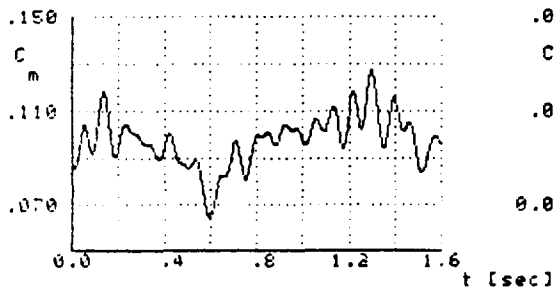
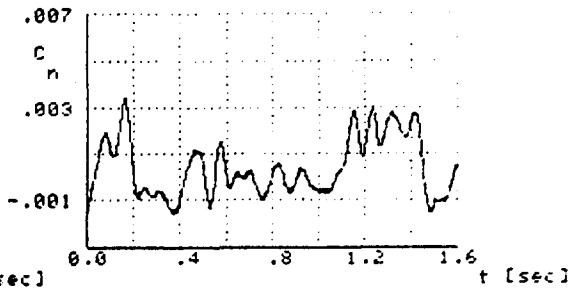
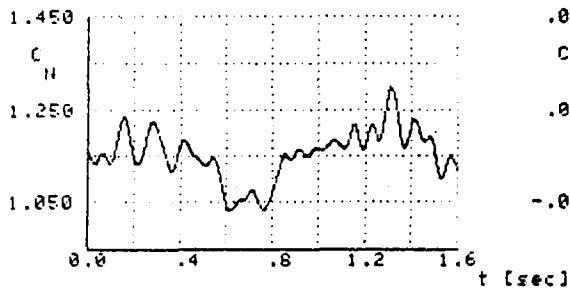
RUN = 3840
 ALPHA_a = 38 deg
 DALPHA_a = 16 deg
 T = 125 msec

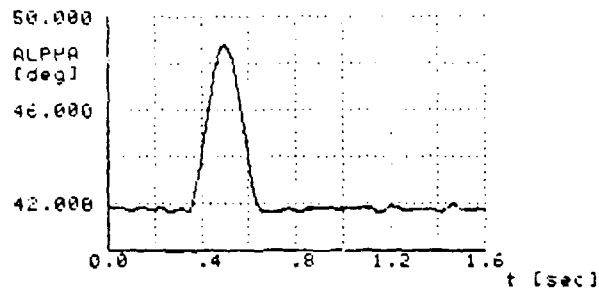




(1-COS) INPUT

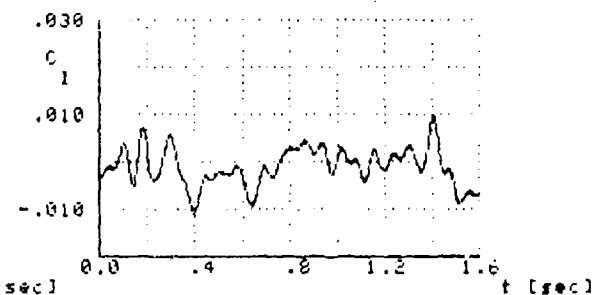
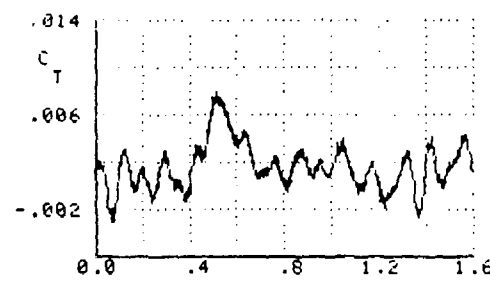
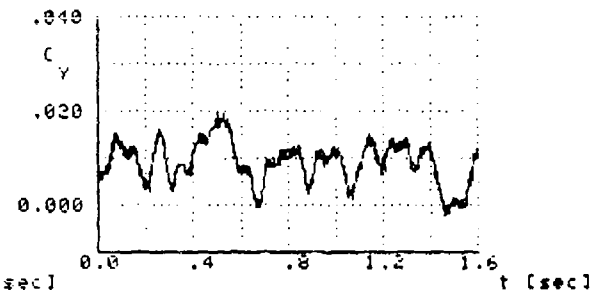
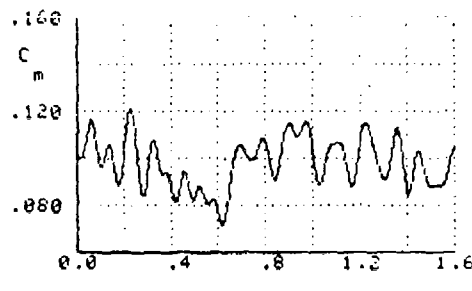
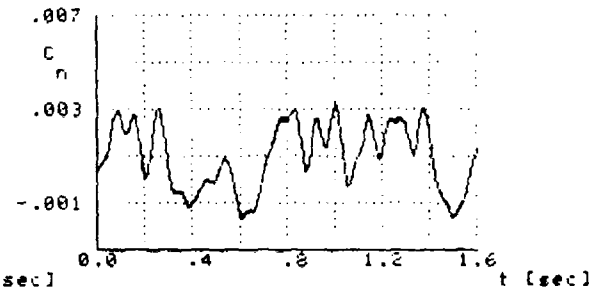
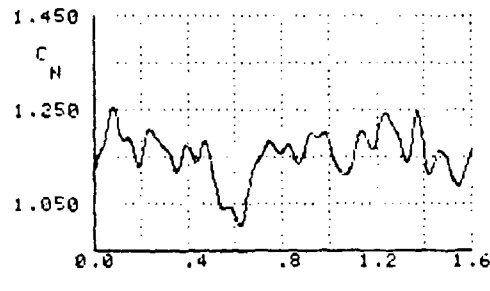
RUN = 3041
 ALPHA_a = 46 deg
 DALPHA_a = 8 deg
 T = 500 msec

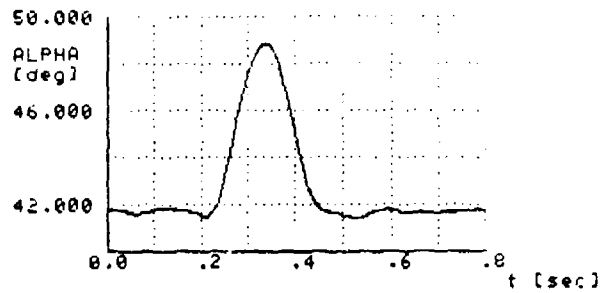




(1-COS) INPUT

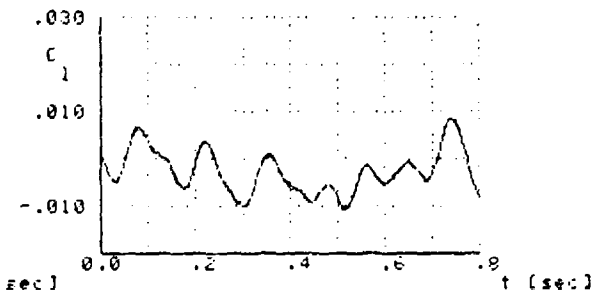
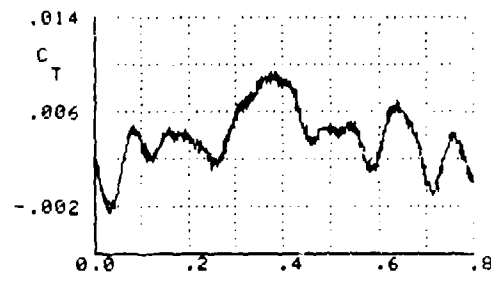
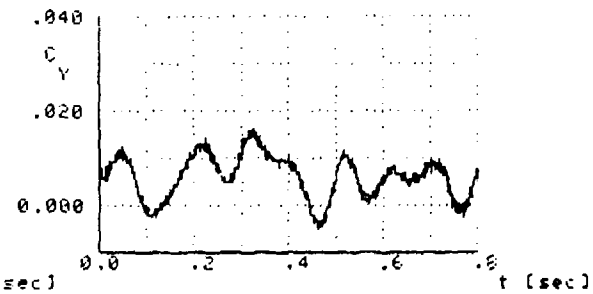
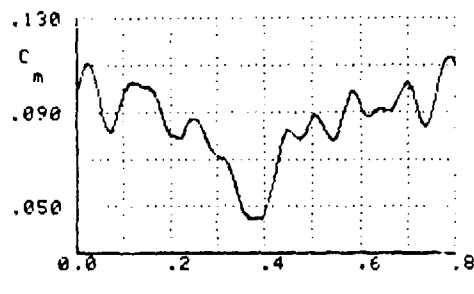
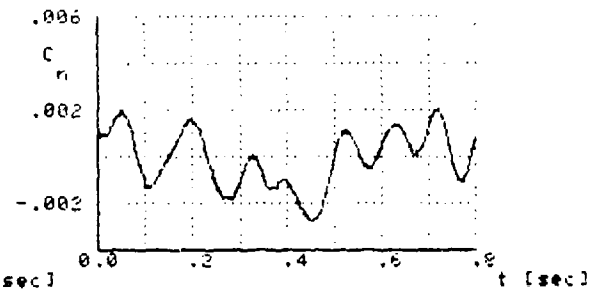
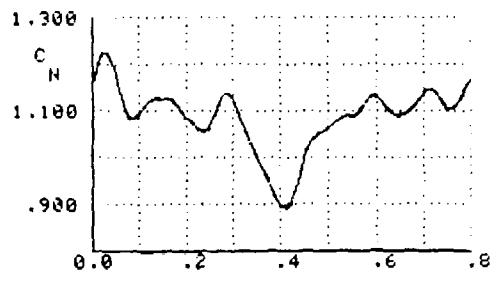
RUN = 3842
 α_a = 46 deg
 β_a = 8 deg
 T = 333 msec

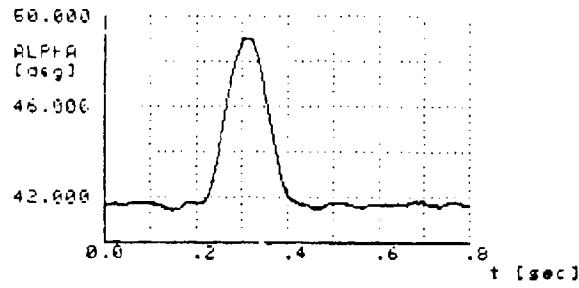




(1-COS) INPUT

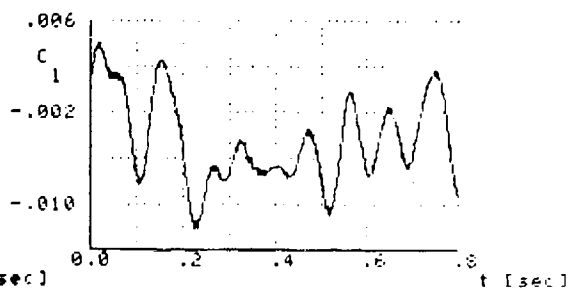
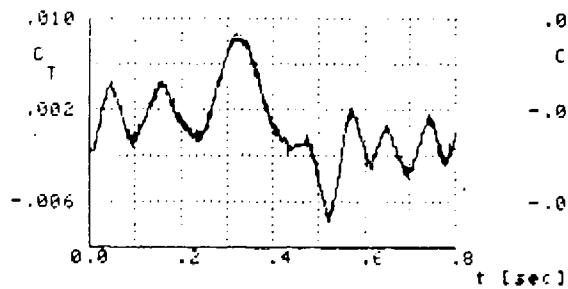
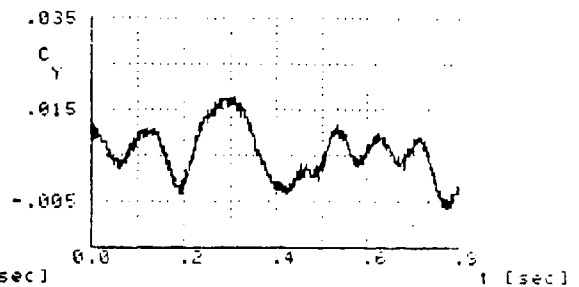
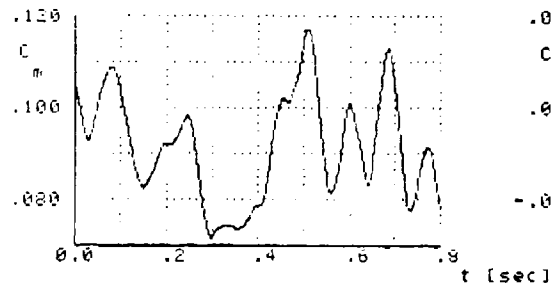
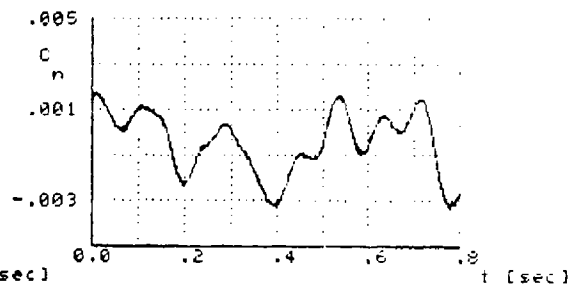
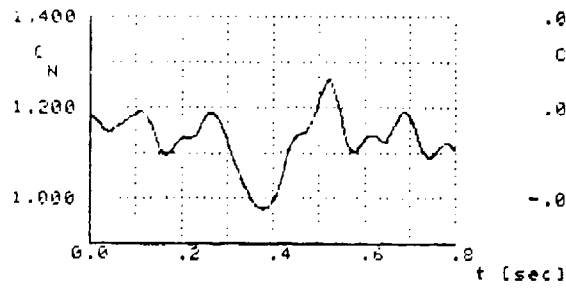
RUN = 3043
 ALPHA_a = 46 deg
 DALPHA_a = 8 deg
 T = 250 msec

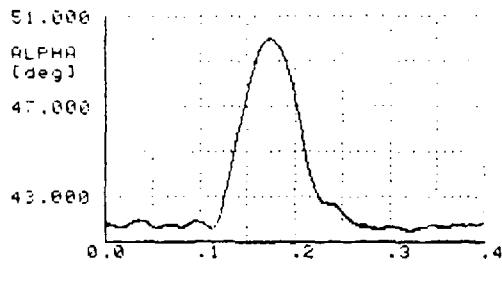




(1-COS) INPUT

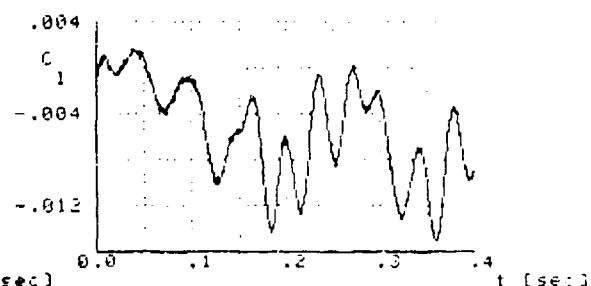
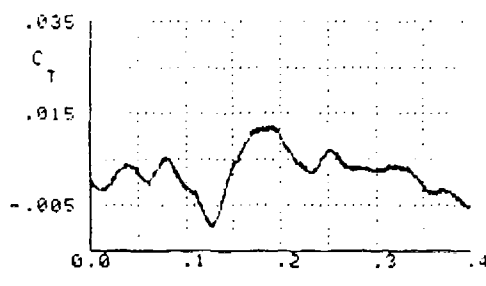
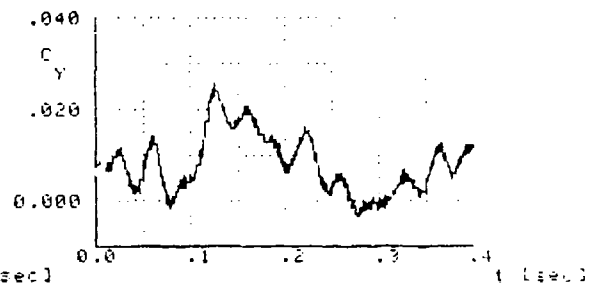
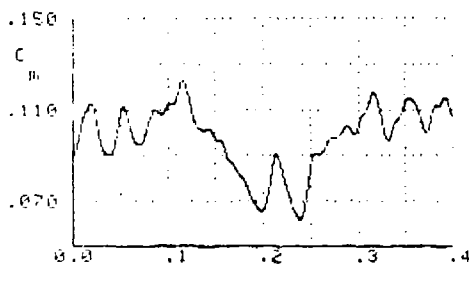
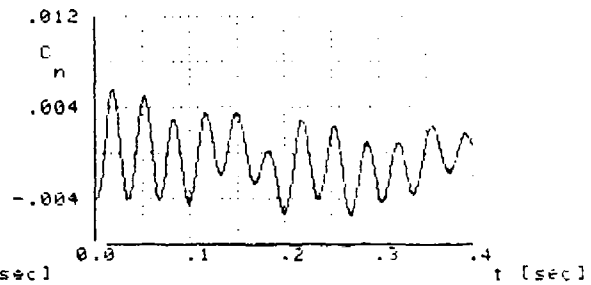
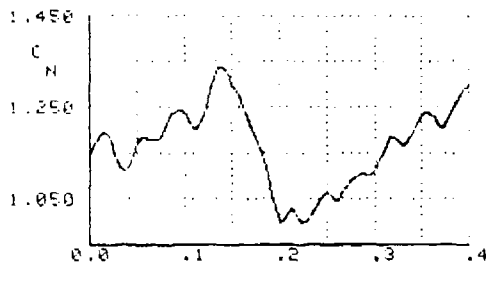
RUN = 3044
 ALPHA = 46 deg
 DIALPHA = 8 deg
 T = 200 msec

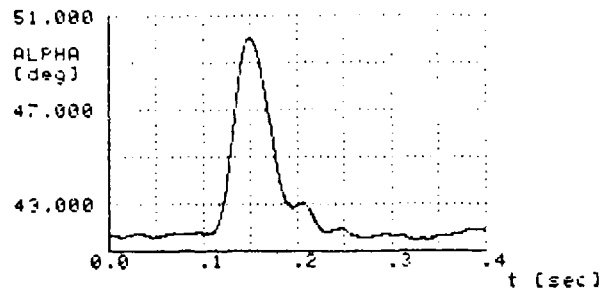




(1-COS) INPUT

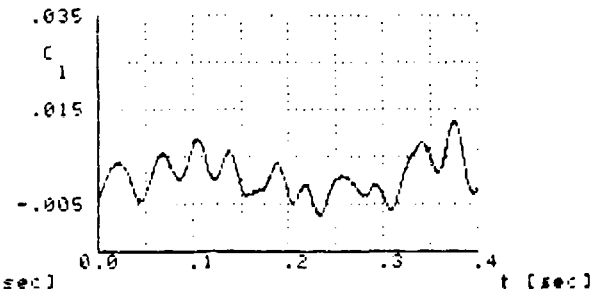
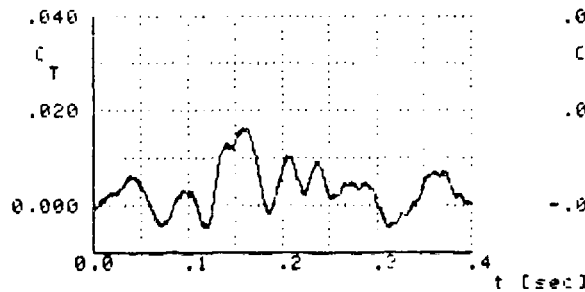
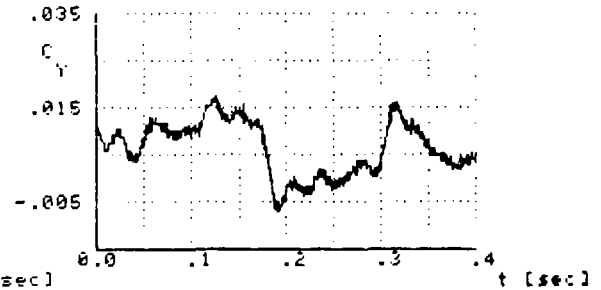
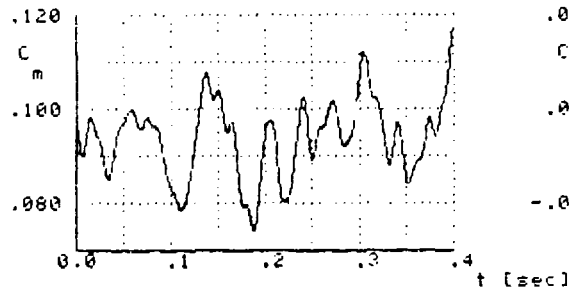
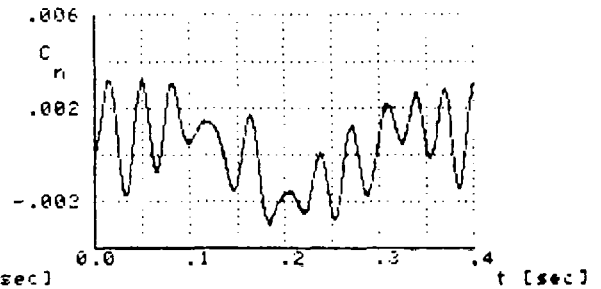
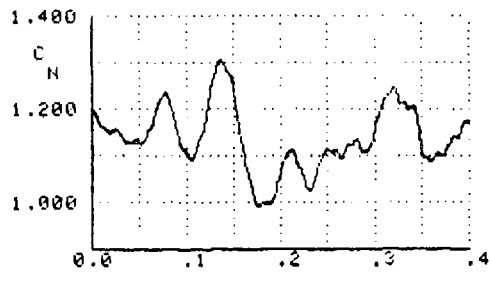
RUN = 3645
 ALPHA_a = 46 deg
 DALPHA_a = 8 deg
 T = 125 msec

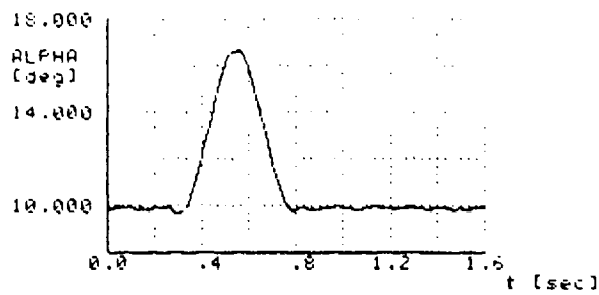




(1-COS) INPUT

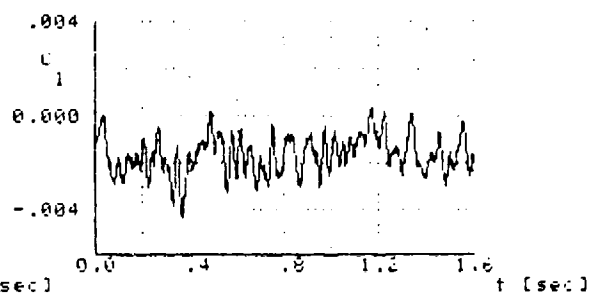
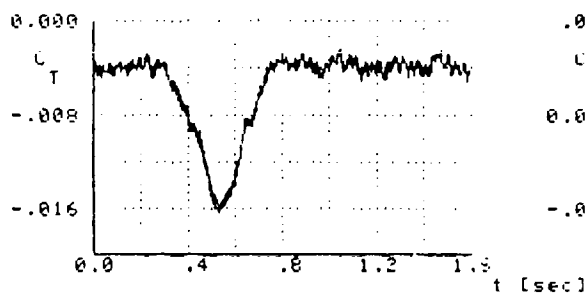
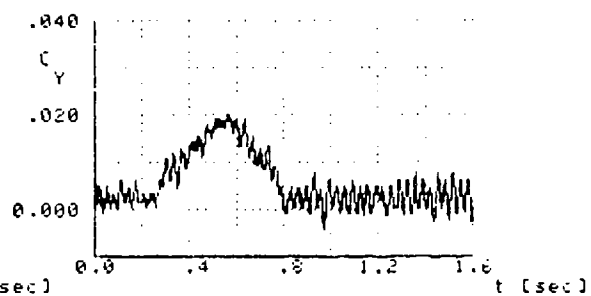
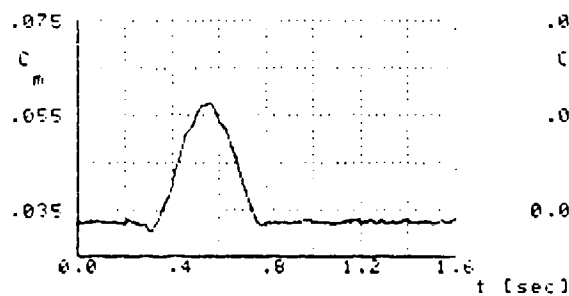
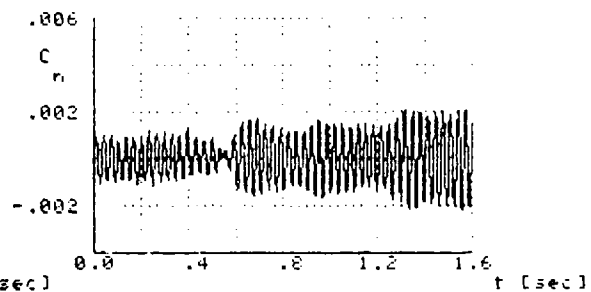
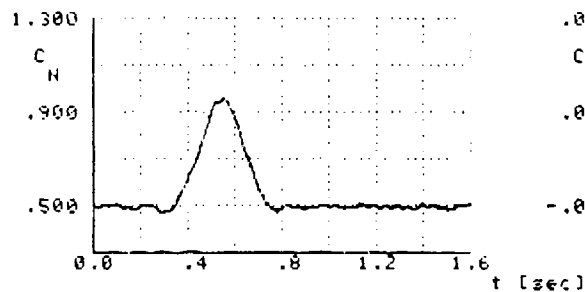
RUN = 3046
 ALPHA_a = 46 deg
 DALPHA_a = 8 deg
 T = 83 msec

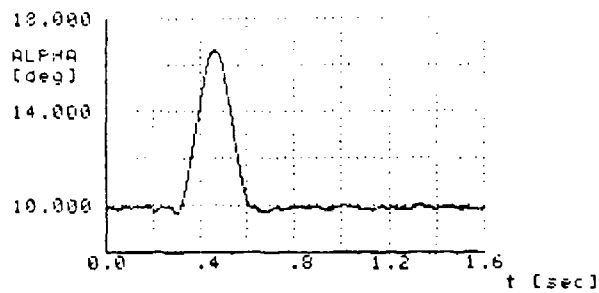




(1-COS) INPUT

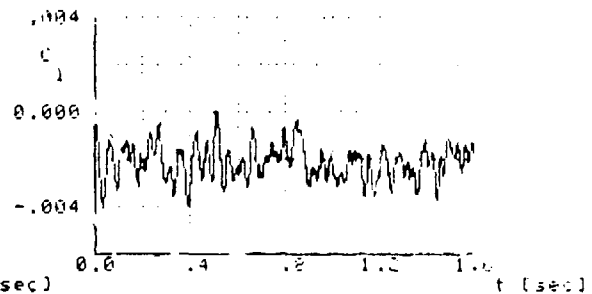
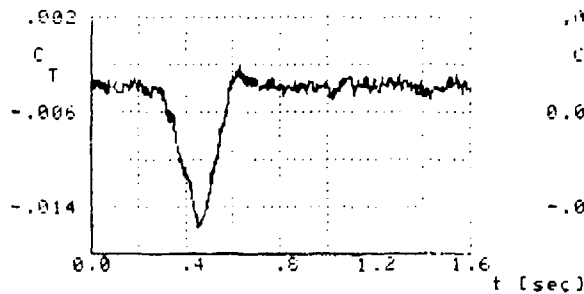
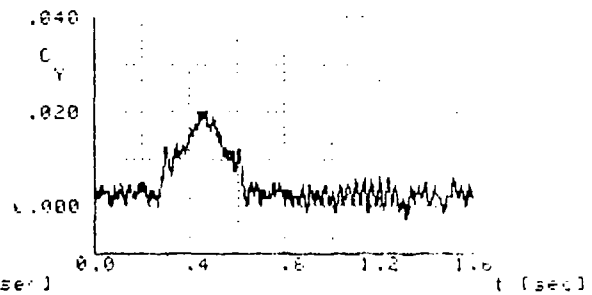
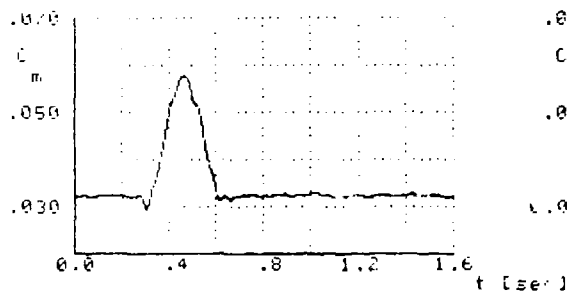
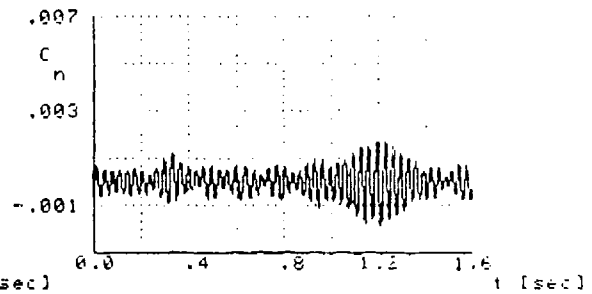
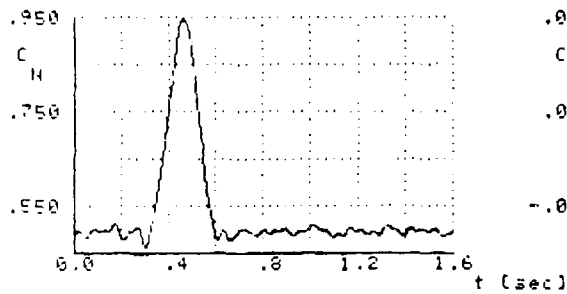
RUN = 3047
 ALPHA_a = 8 deg
 DALPHA_a = 6 deg
 T = 500 msec

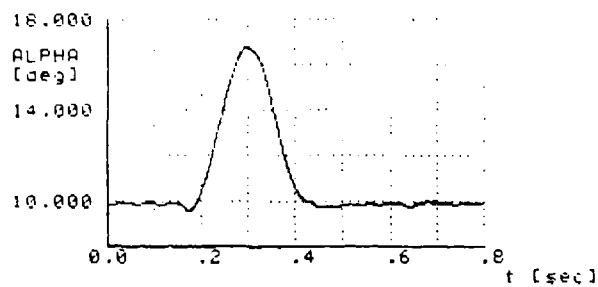




(1-COS) INPUT

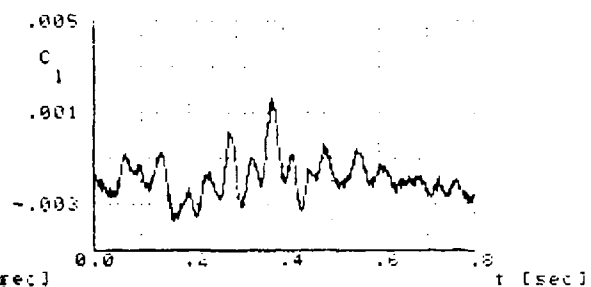
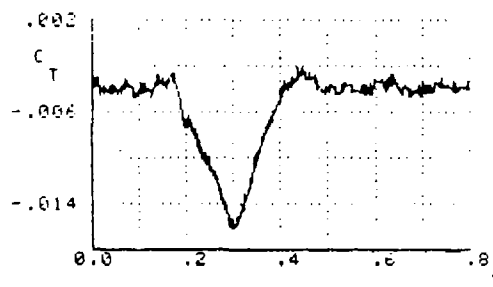
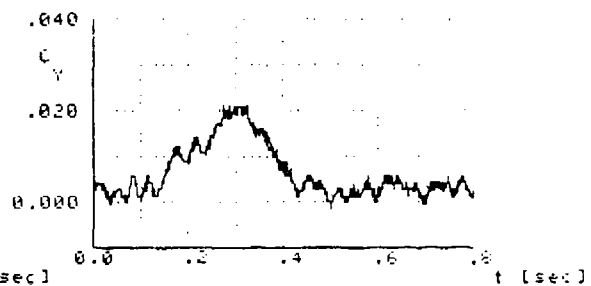
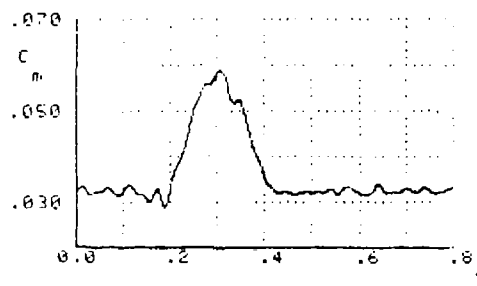
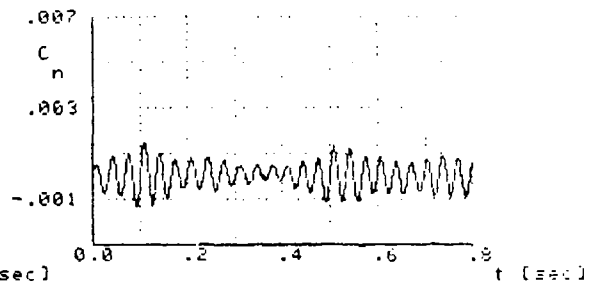
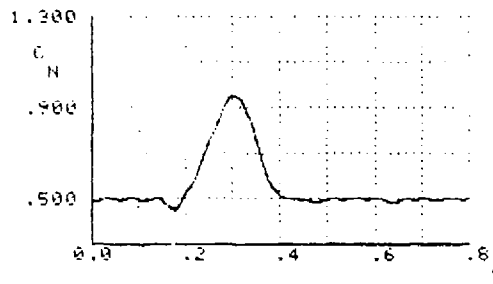
RUN = 3048
ALPHA_a = 8 deg
DALPHA_a = 8 deg
T = 333 msec

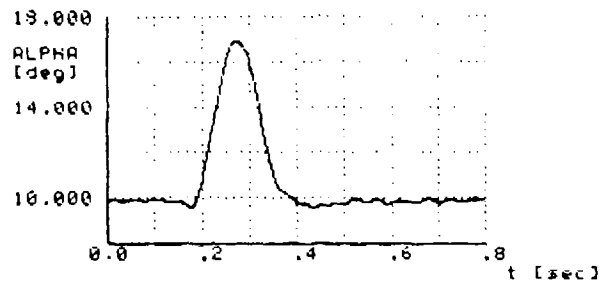




(1-COS) INPUT

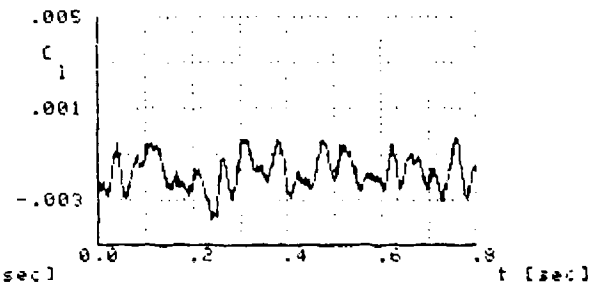
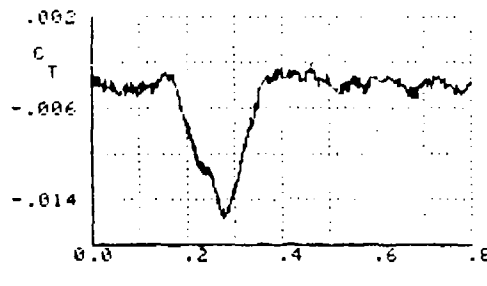
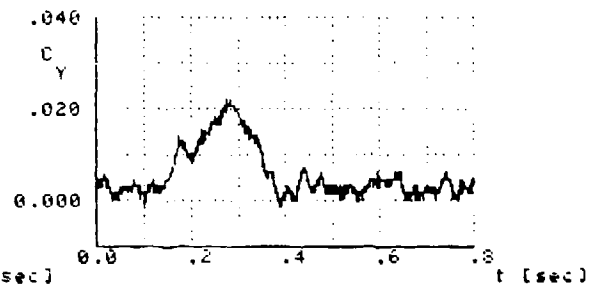
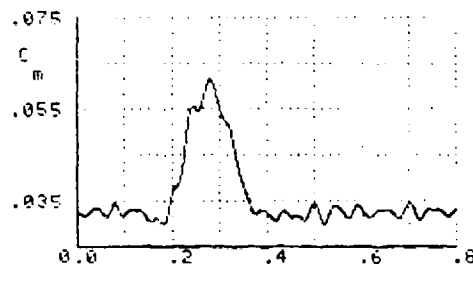
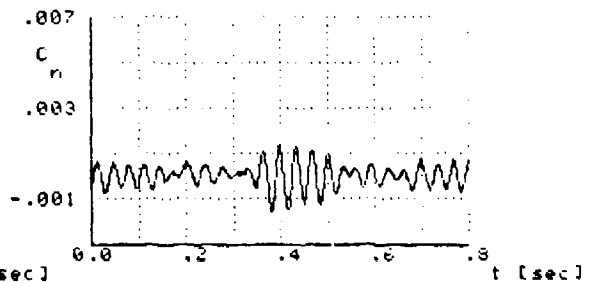
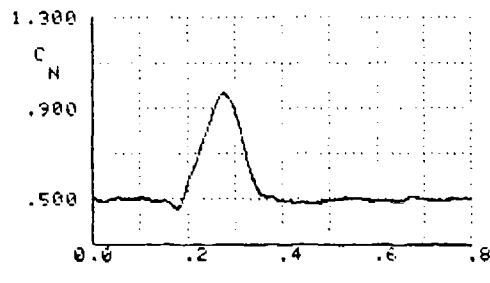
RUN = 3049
ALPHA_a = 8 deg
DALPHA_a = 8 deg
T = 250 msec

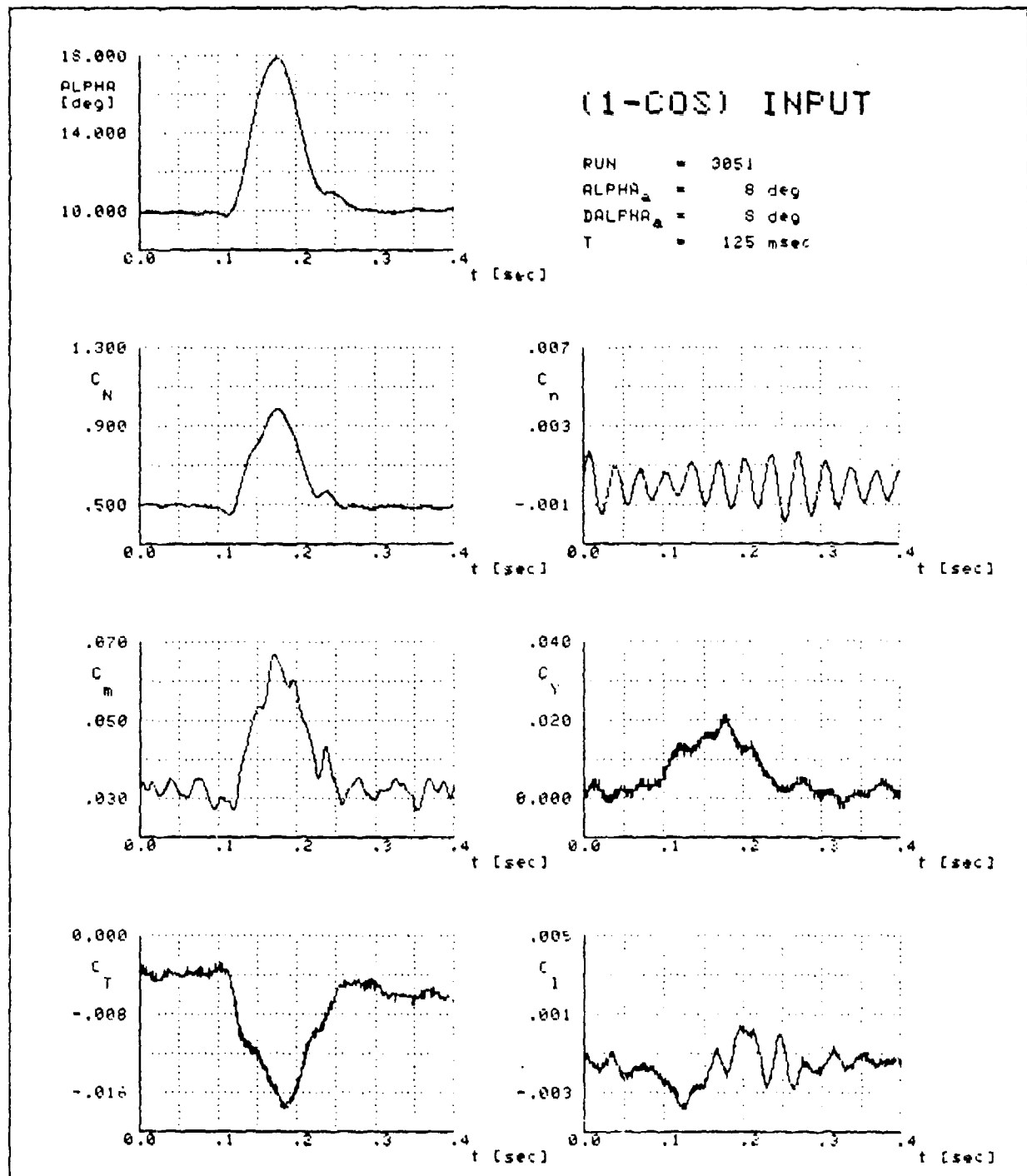


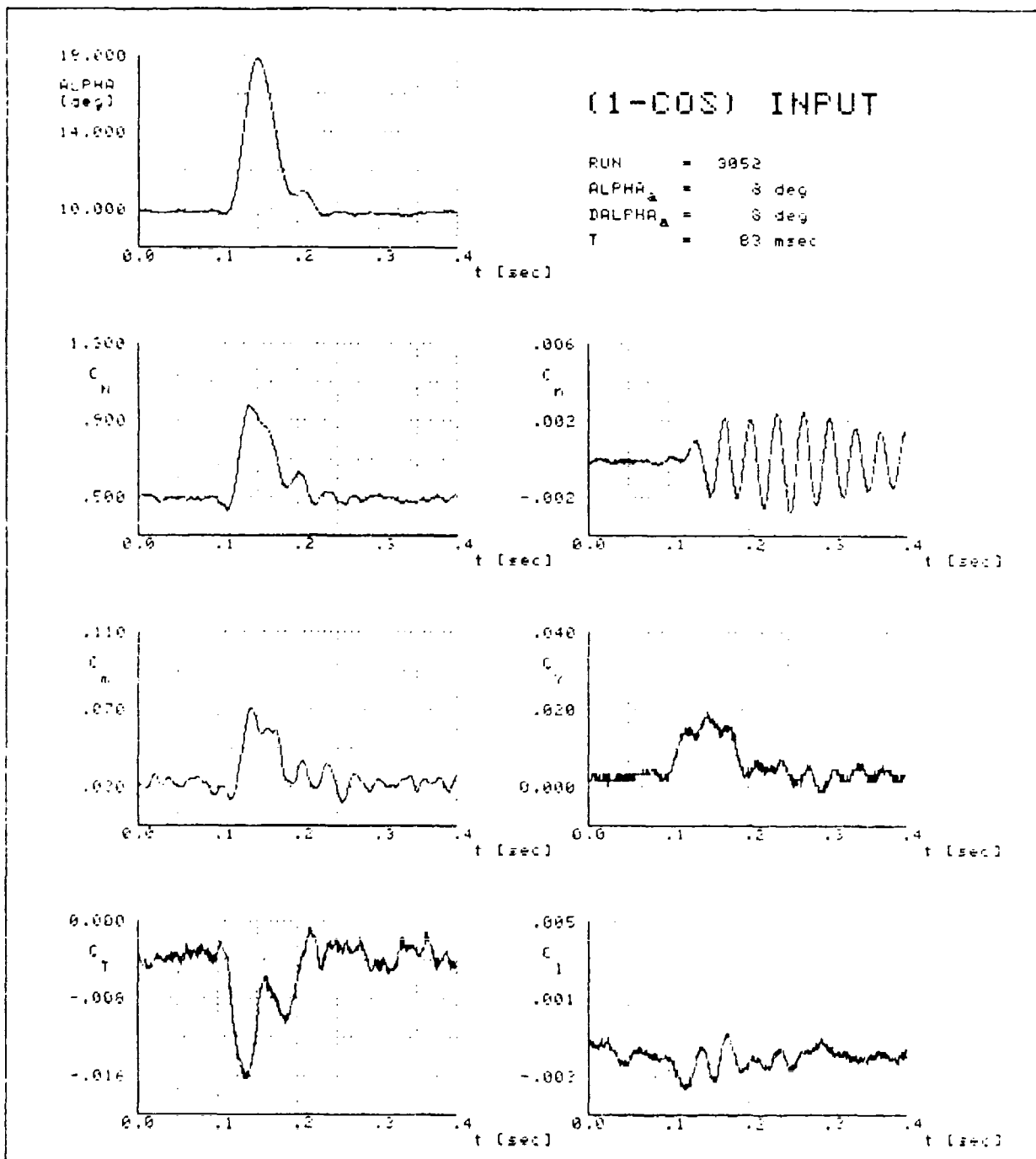


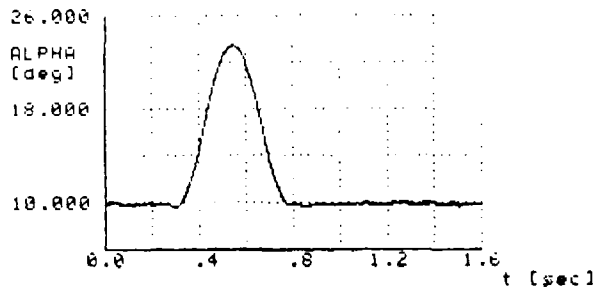
(1-COS) INPUT

RUN = 3050
 ALPHA_a = 6 deg
 DIALPHA_a = 6 deg
 T = 200 msec



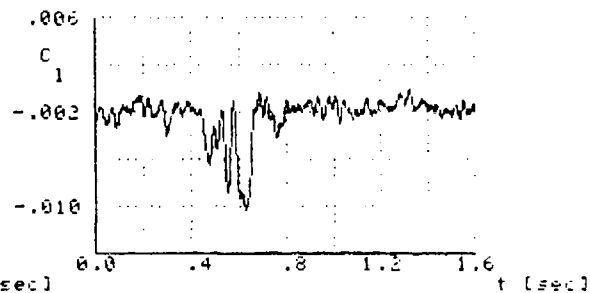
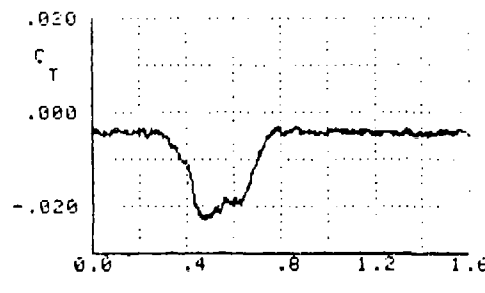
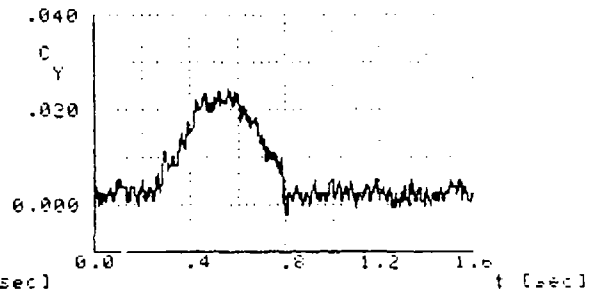
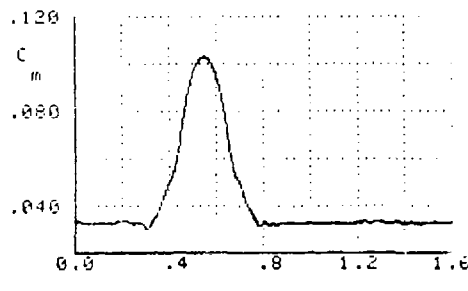
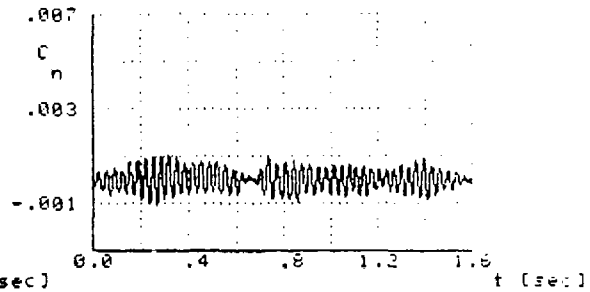
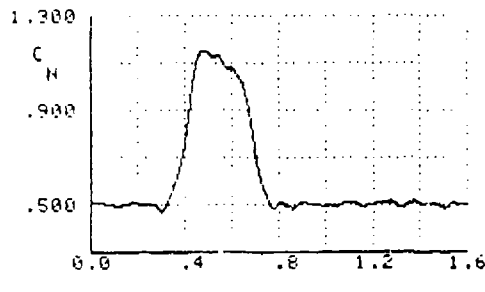


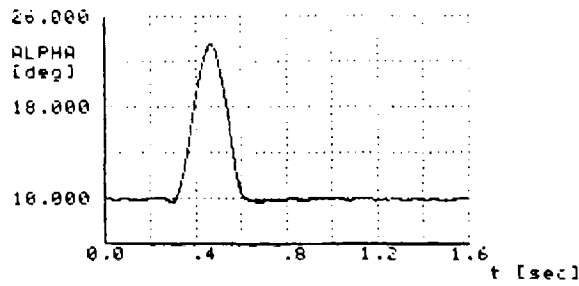




(1-COS) INPUT

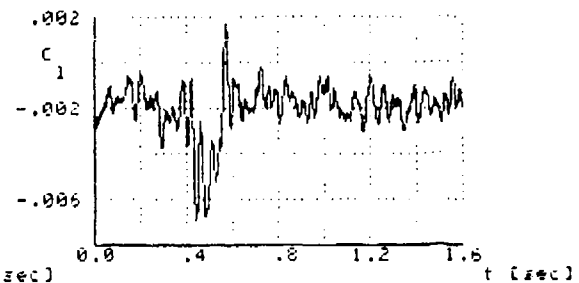
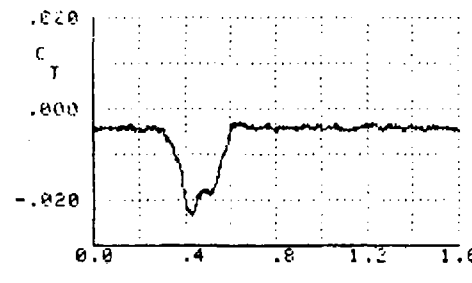
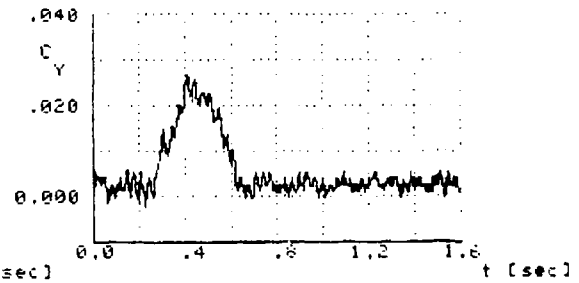
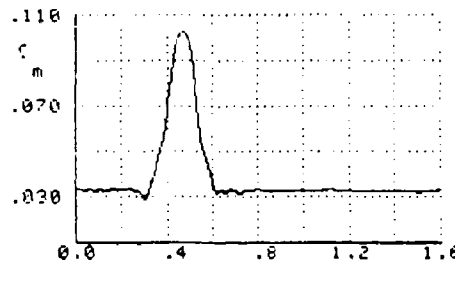
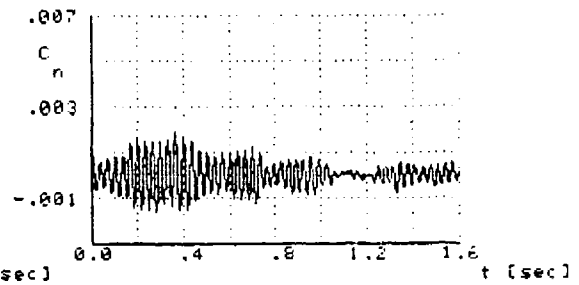
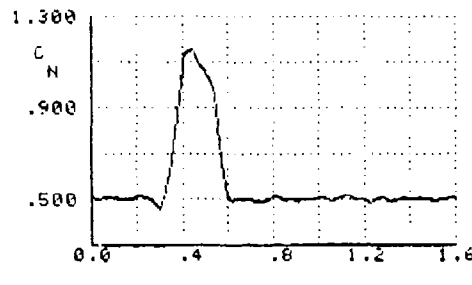
RUN = 3053
 ALPHA_A = 8 deg
 DALPHA_A = 16 deg
 T = 500 msec

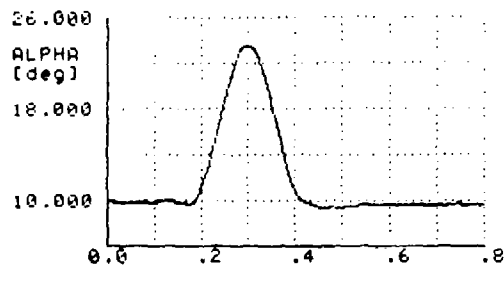




(1-COS) INPUT

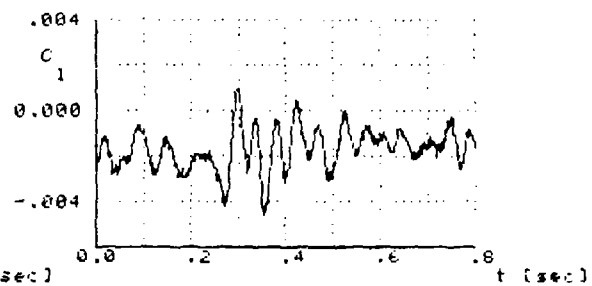
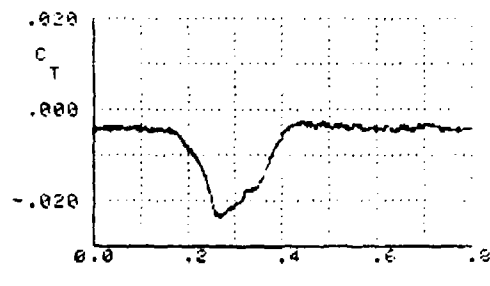
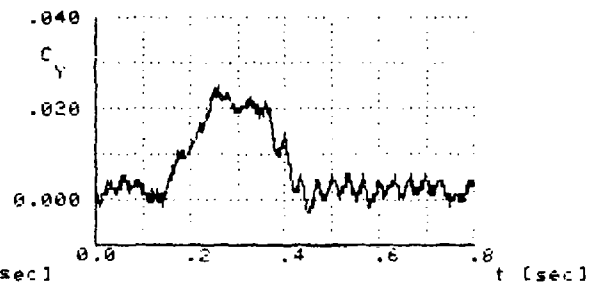
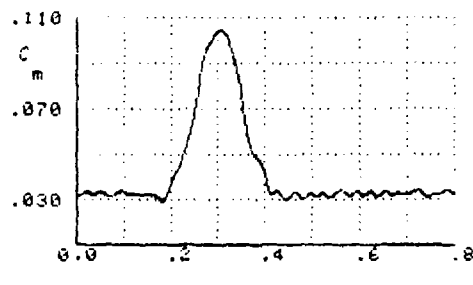
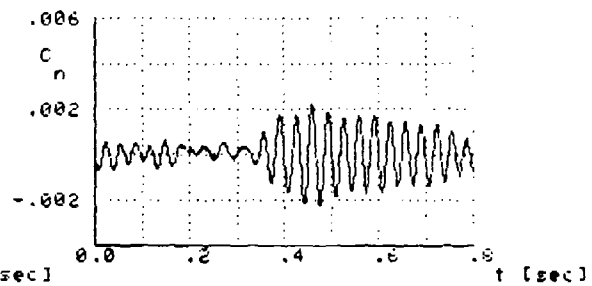
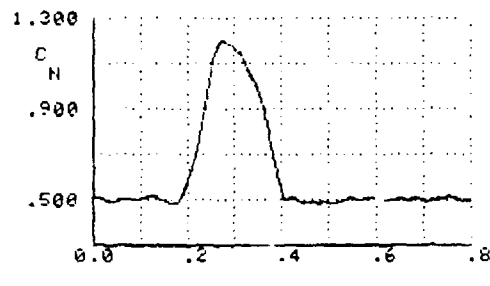
RUN = 3054
 α_a = 8 deg
 $\Delta\alpha_a$ = 16 deg
 T = 333 msec

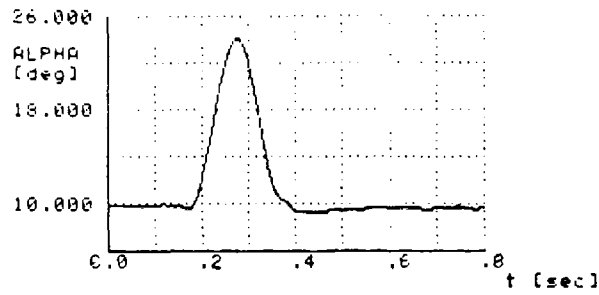




(1-COS) INPUT

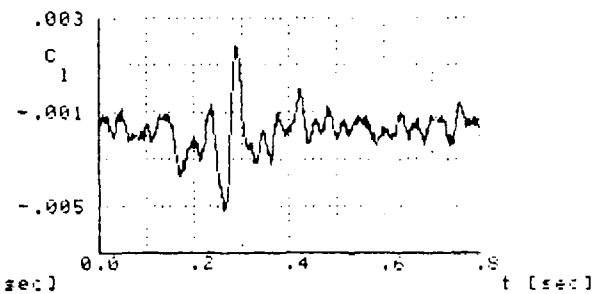
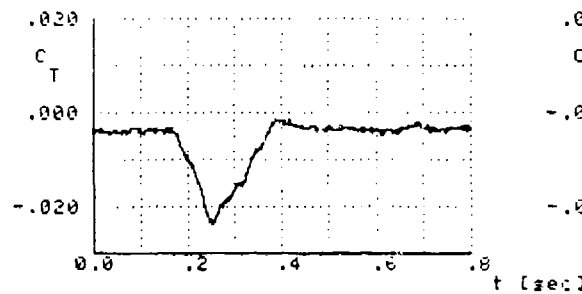
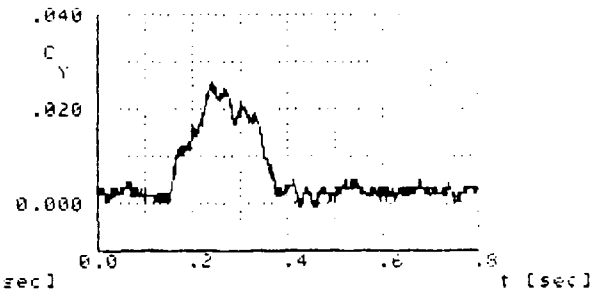
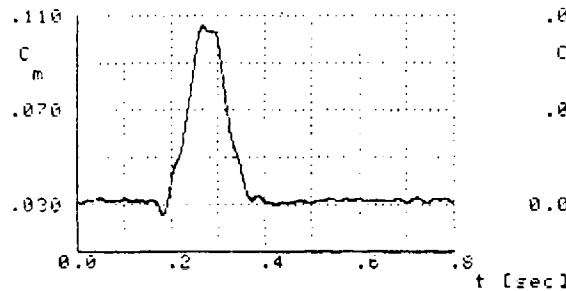
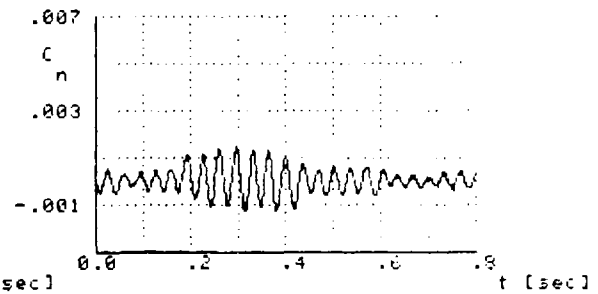
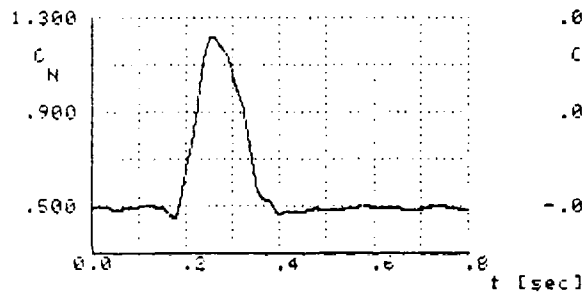
RUN = 3055
 ALPHA_a = 8 deg
 DALPHA_a = 16 deg
 T = 250 msec

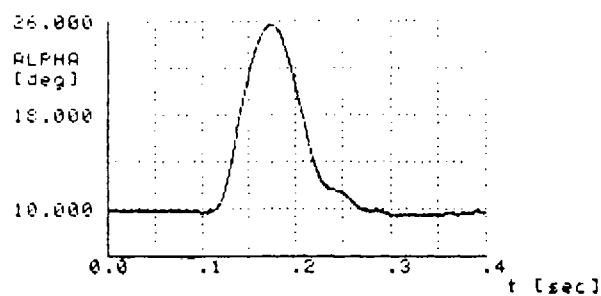




(1-COS) INPUT

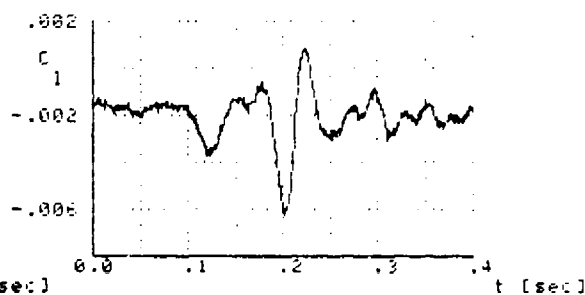
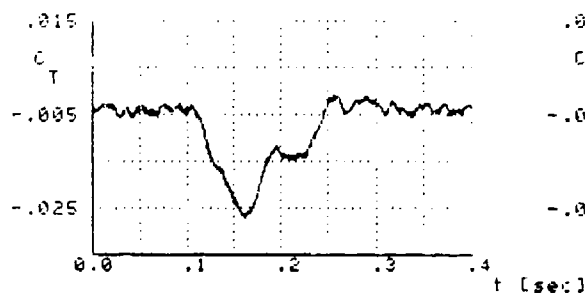
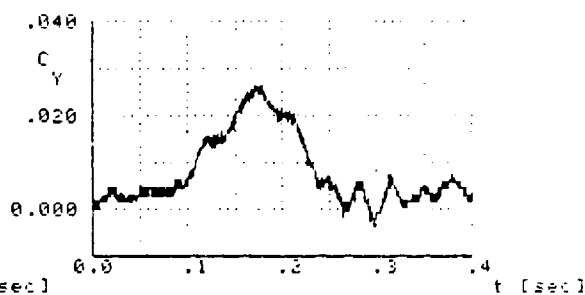
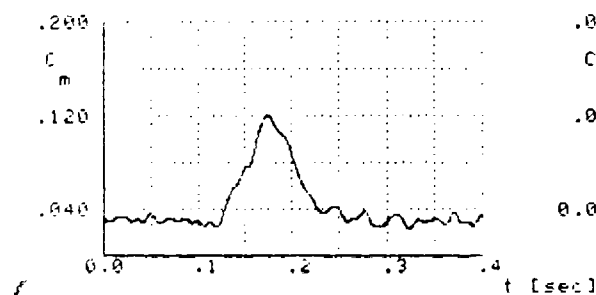
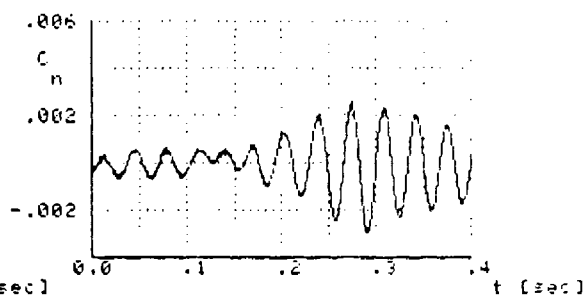
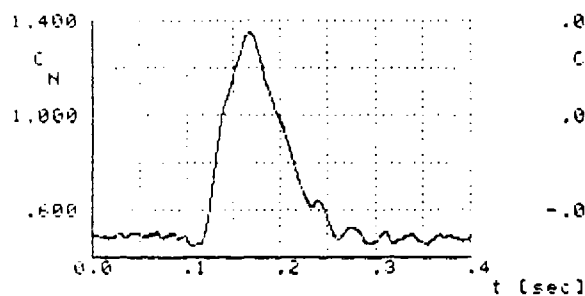
RUN = 3056
 ALPHA_a = 8 deg
 DALPHA_a = 16 deg
 T = 200 msec

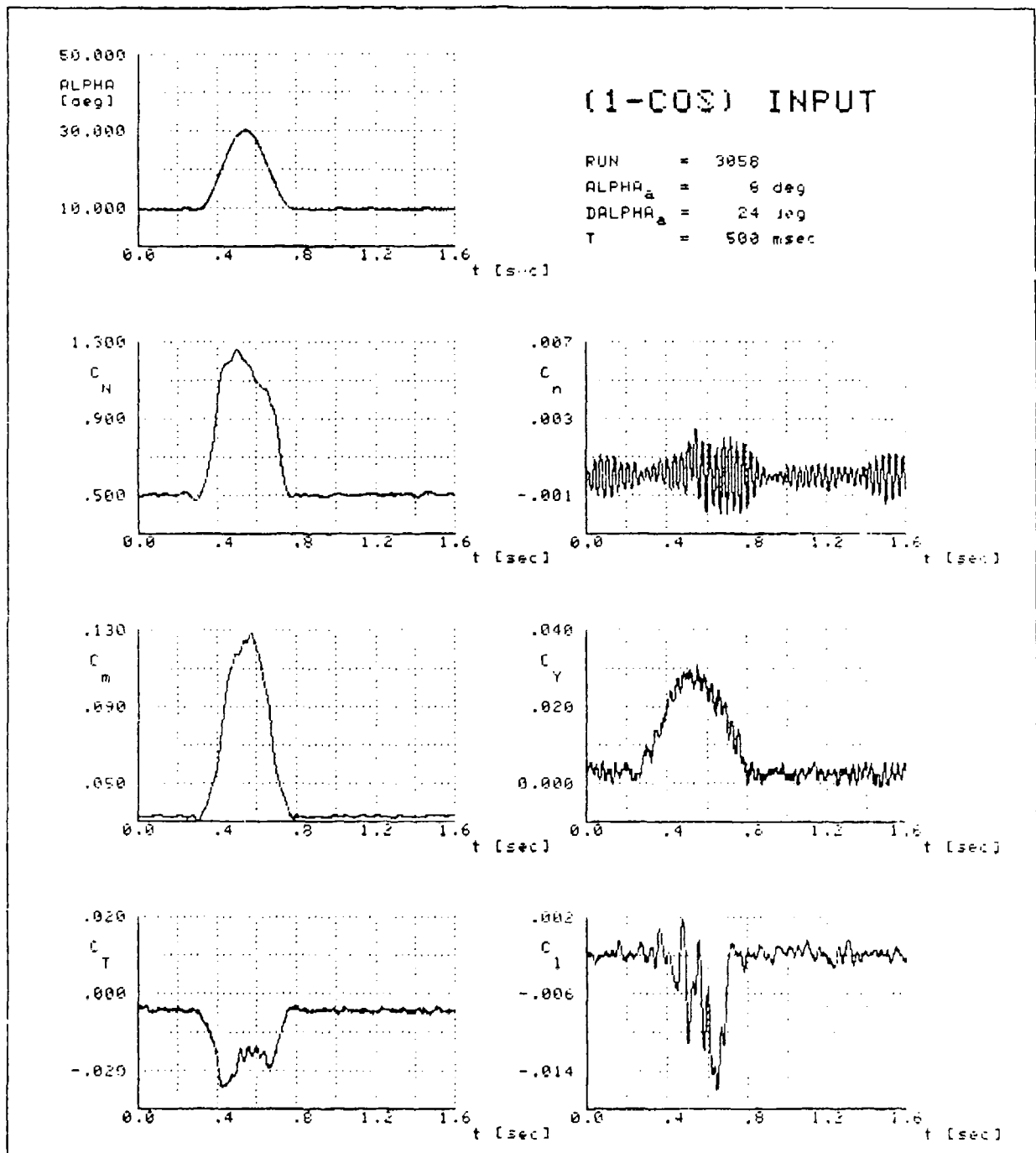


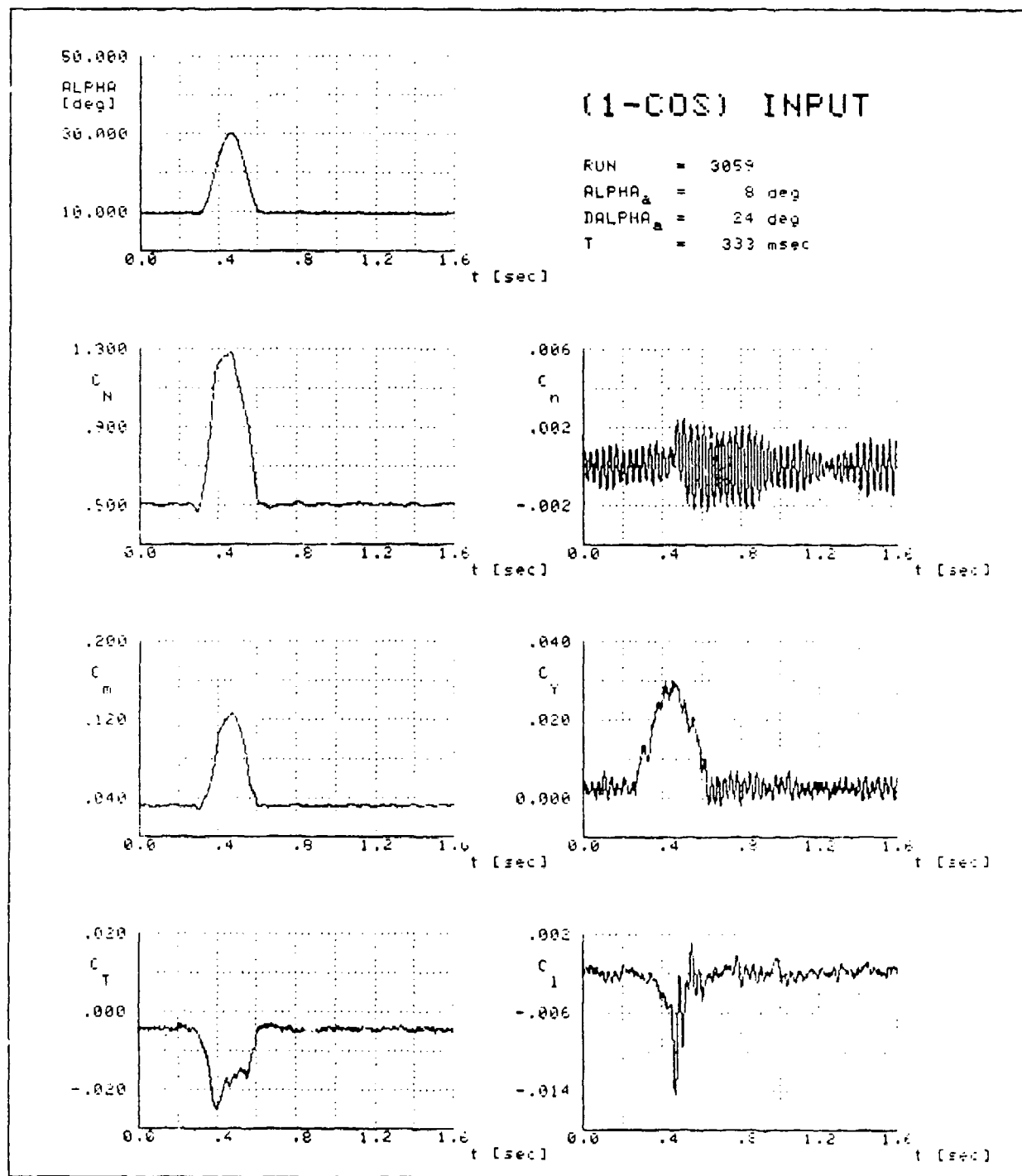


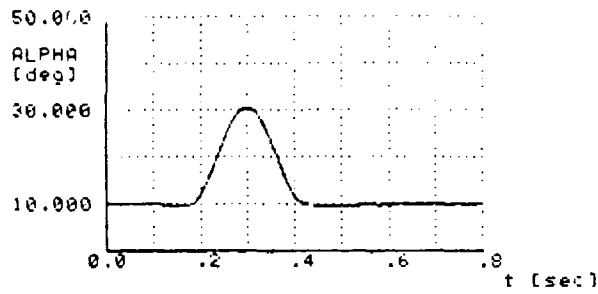
(1-COS) INPUT

RUN = 3057
 ALPHA_a = 8 deg
 DALPHA_a = 16 deg
 T = 125 msec



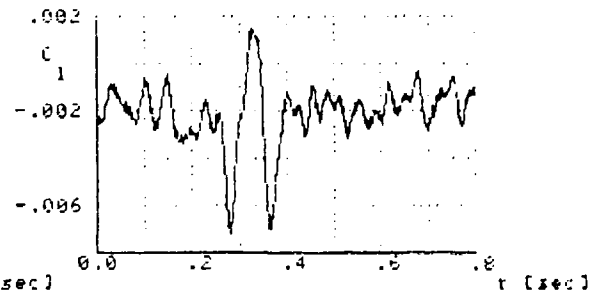
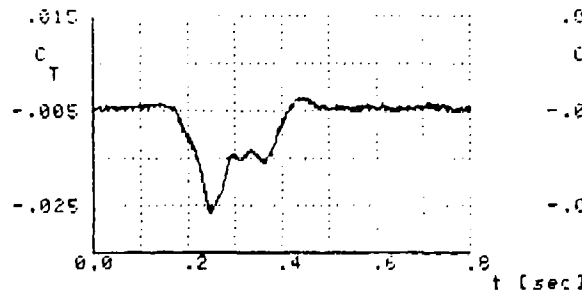
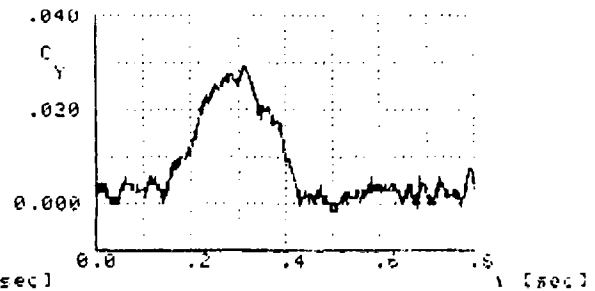
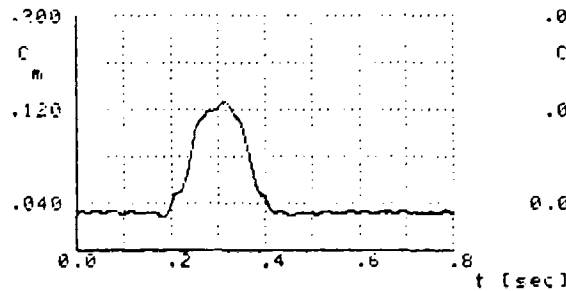
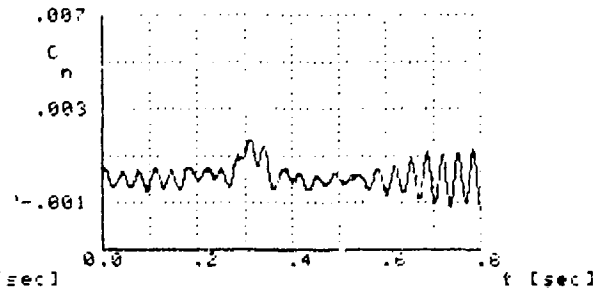
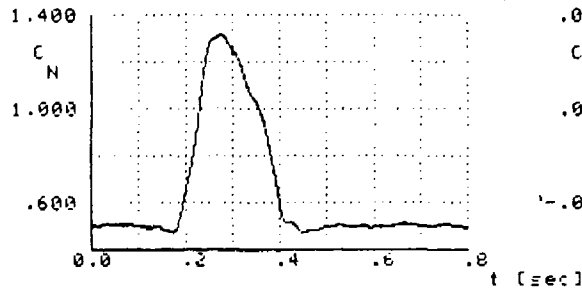


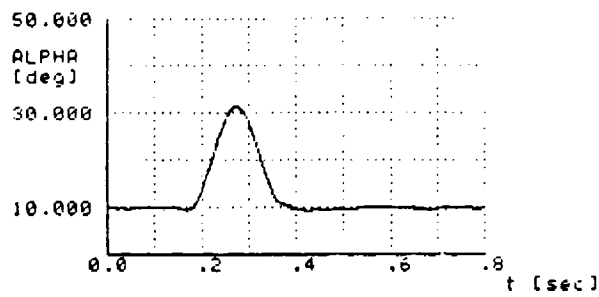




(1-COS) INPUT

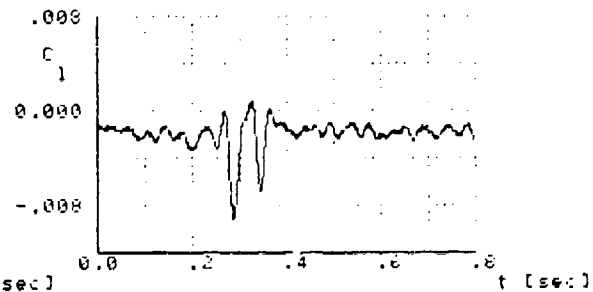
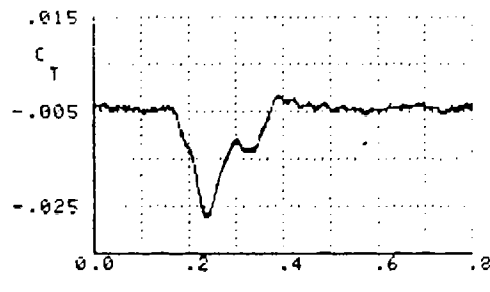
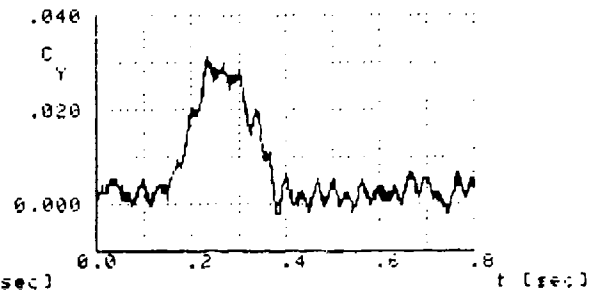
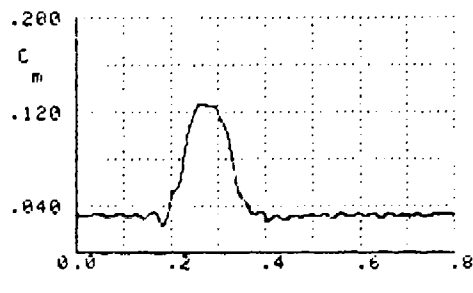
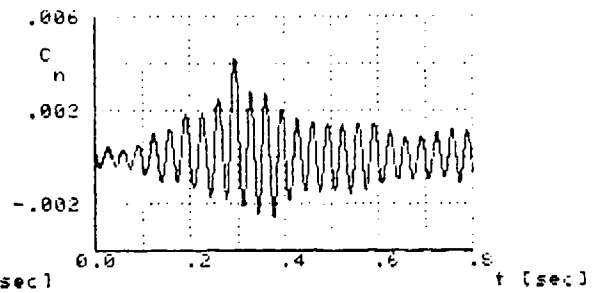
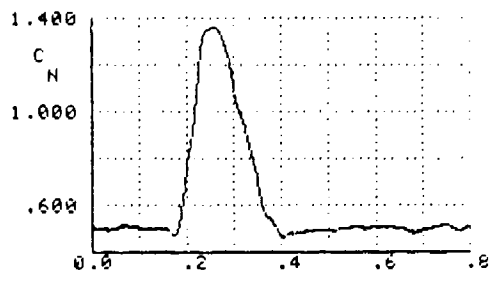
PUN = 3060
 ALPHA = 8 deg
 DIALPHA = 24 deg
 T = 250 msec

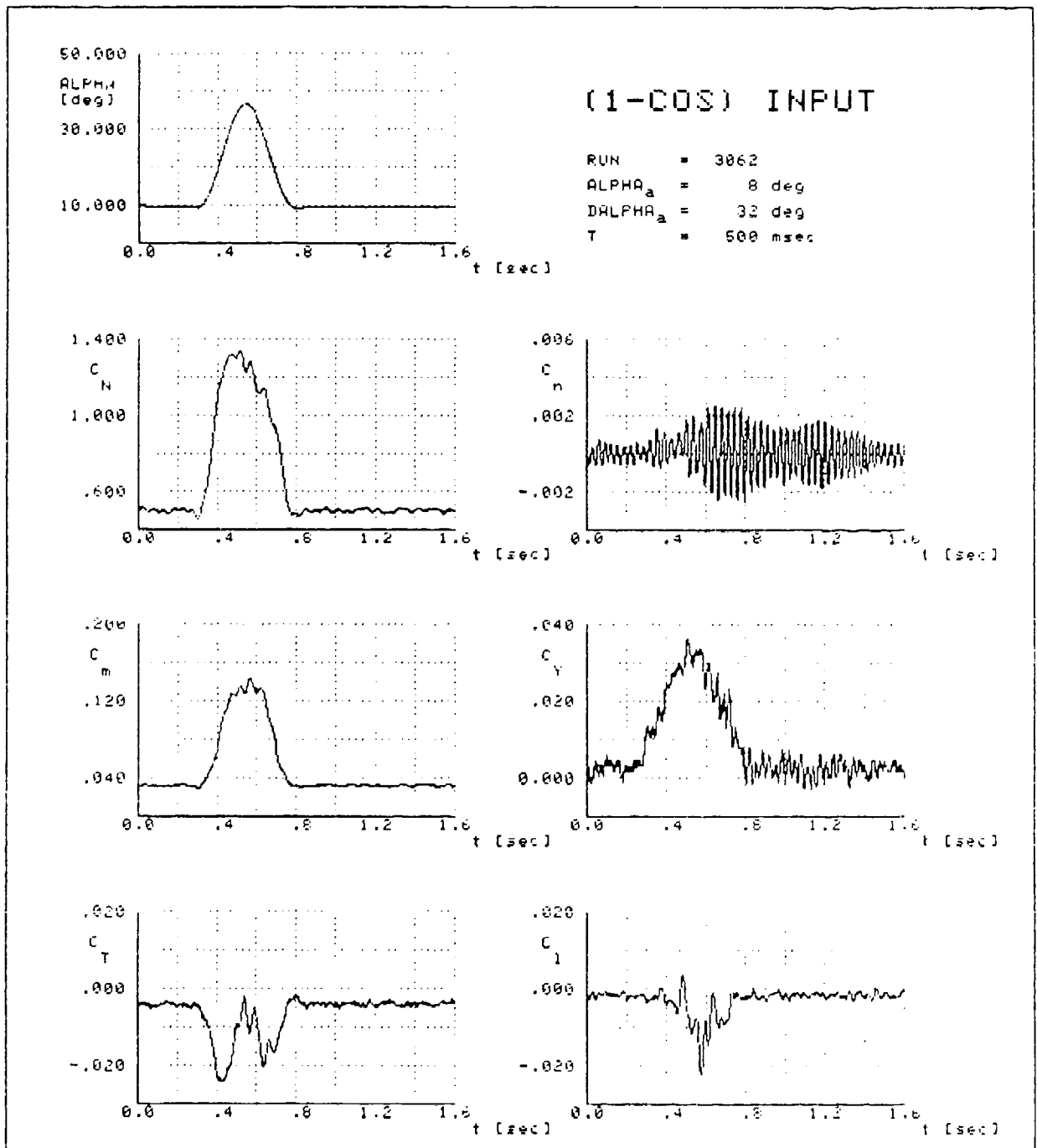


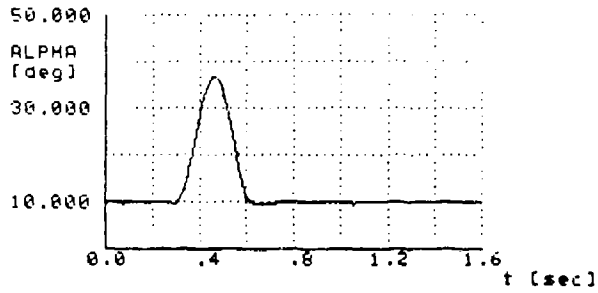


(1-COS) INPUT

RUN = 3061
 $\text{ALPHA}_a = 8 \text{ deg}$
 $\text{DALPHA}_a = 24 \text{ deg}$
 $T = 200 \text{ msec}$

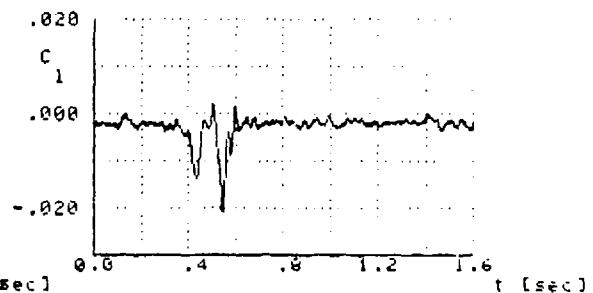
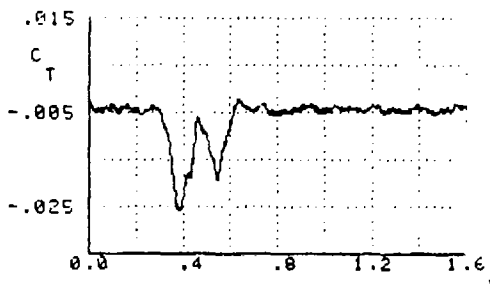
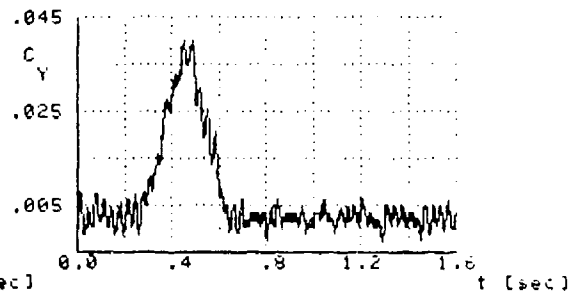
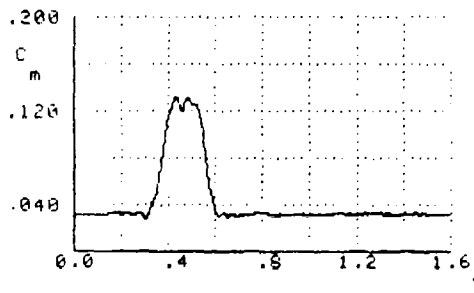
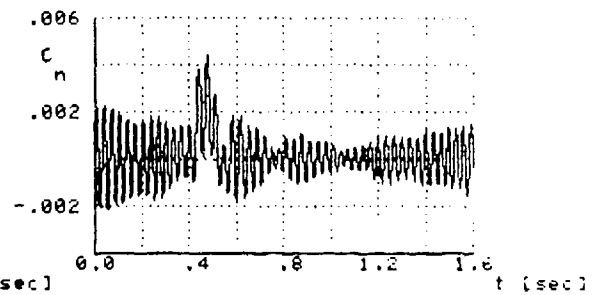
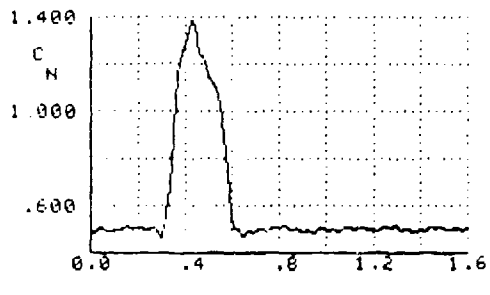


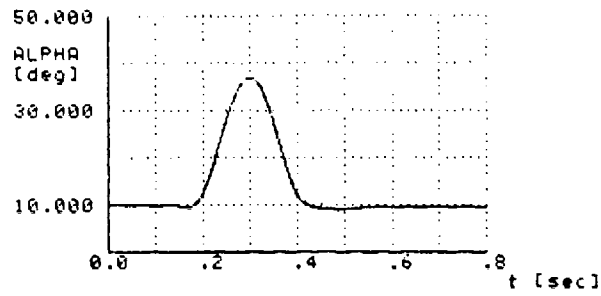




(1-COS) INPUT

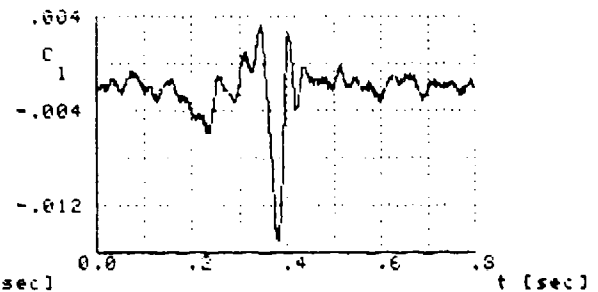
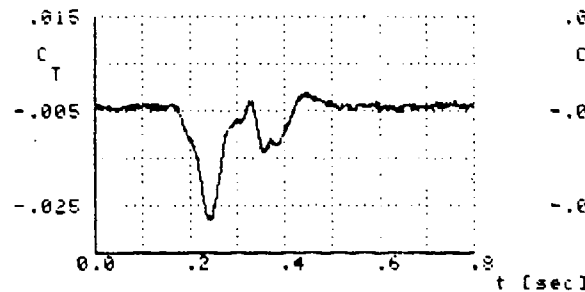
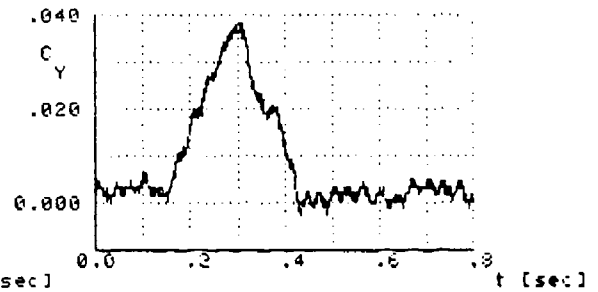
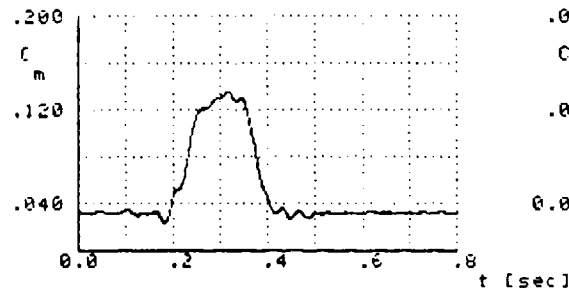
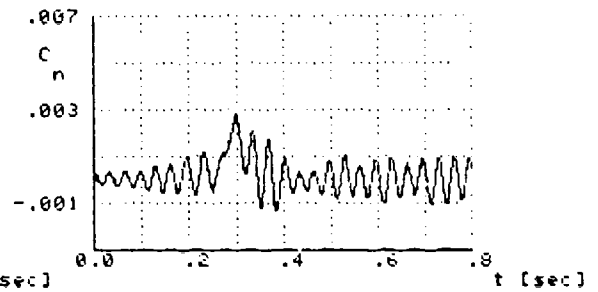
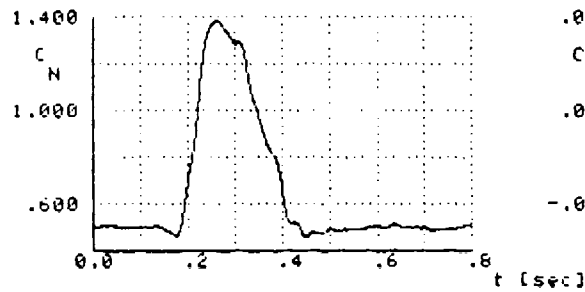
RUN = 3063
ALPHA_A = 8 deg
DALPHA_A = 32 deg
T = 333 msec

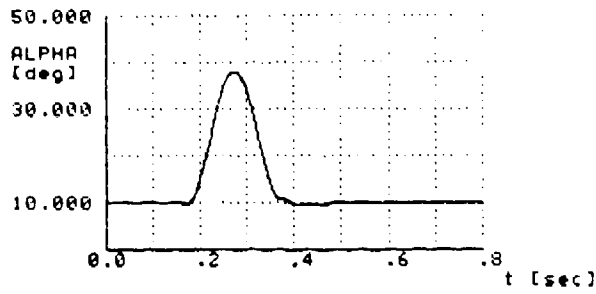




(1-COS) INPUT

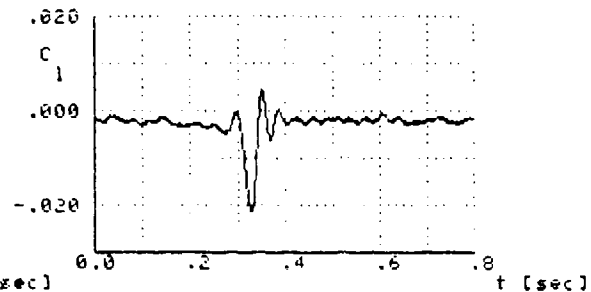
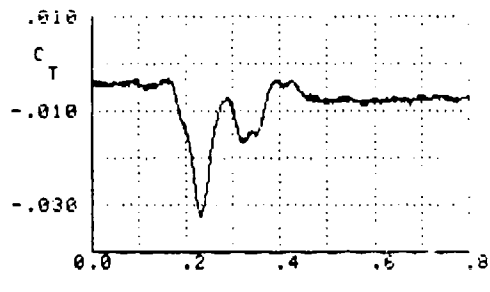
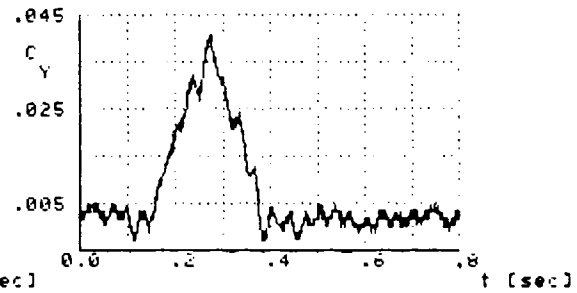
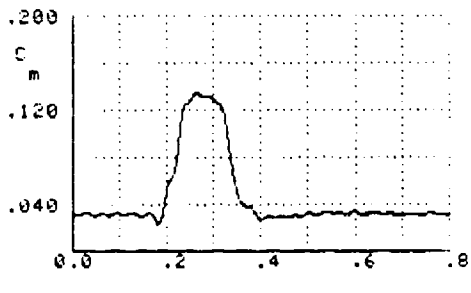
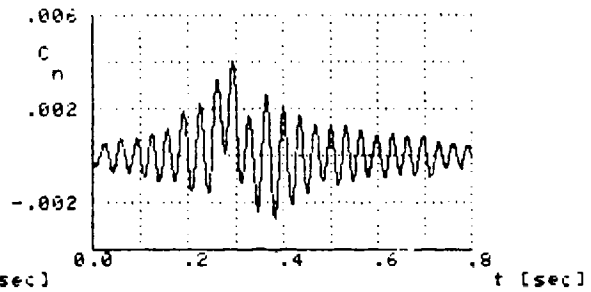
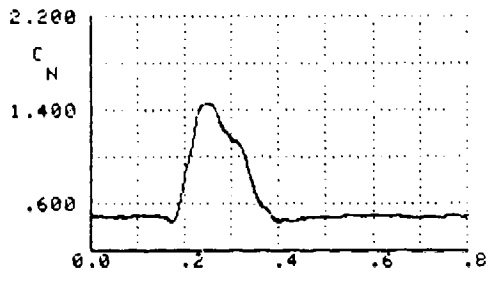
RUN = 3864
 ALPHA_a = 8 deg
 DRALPHA_a = 32 deg
 T = 250 msec

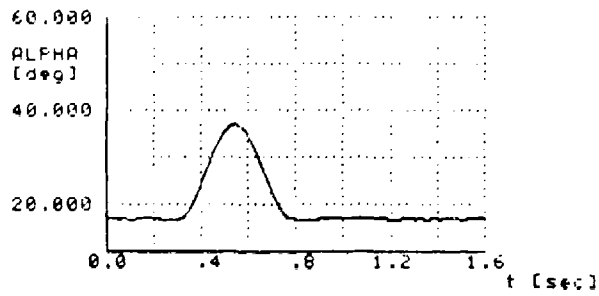




(1-COS) INPUT

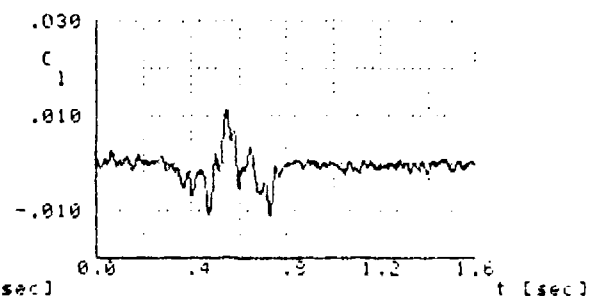
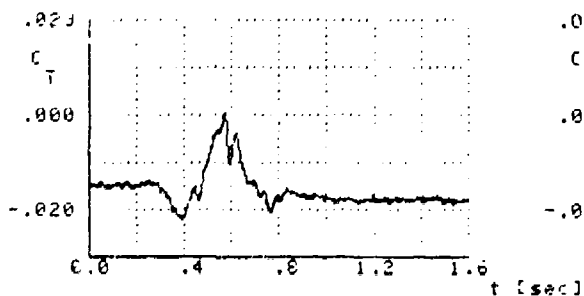
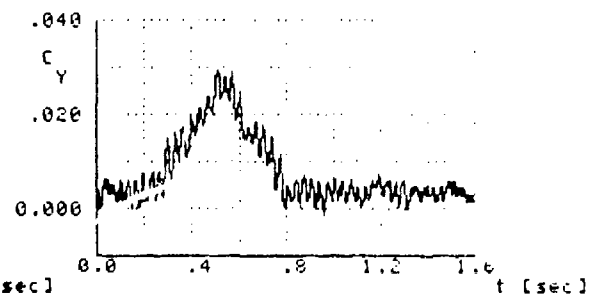
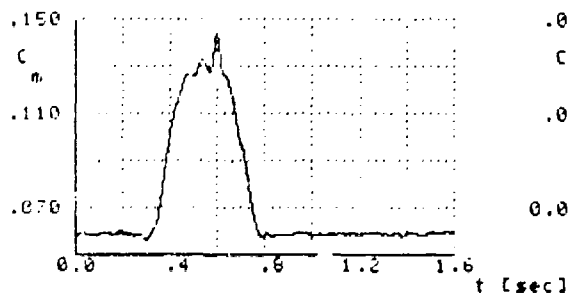
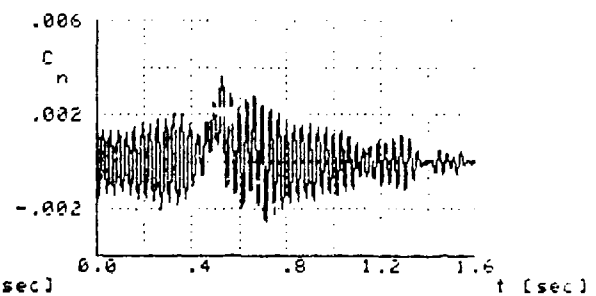
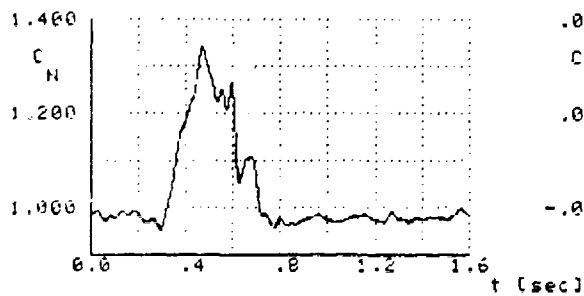
RUN = 3065
 ALPHA = 8 deg
 DALPHA = 32 deg
 T = 200 msec

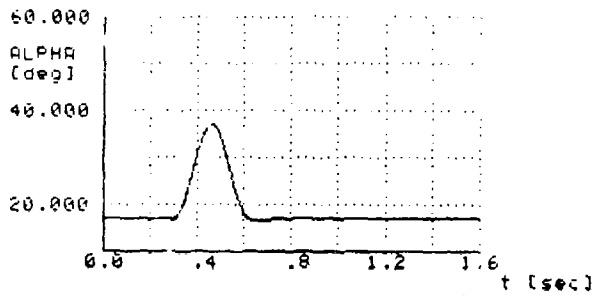




(1-COS) INPUT

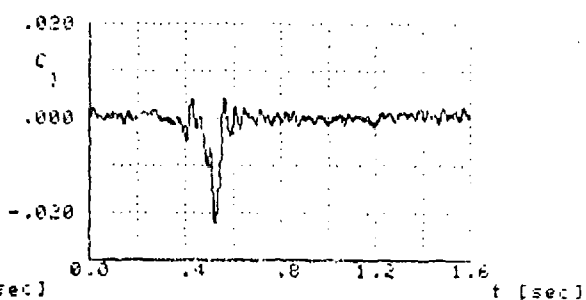
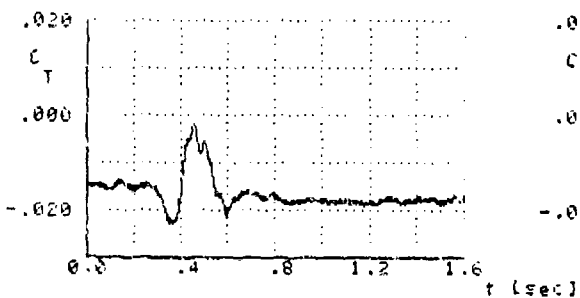
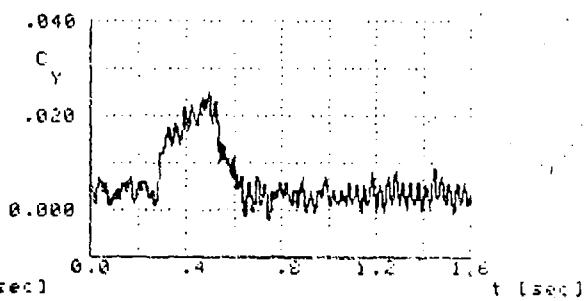
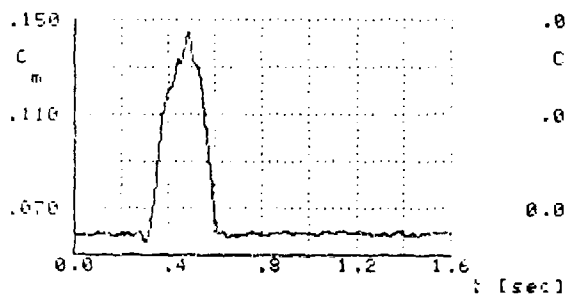
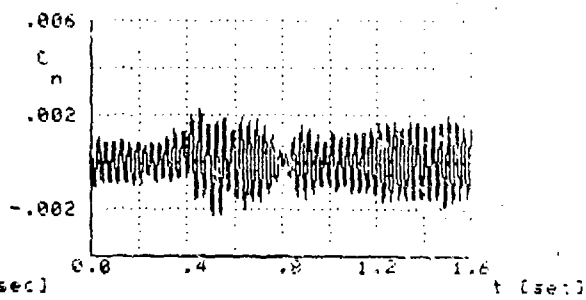
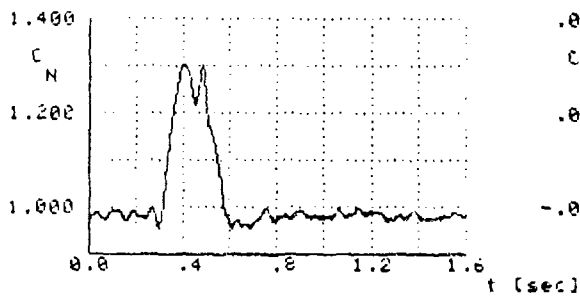
RUN = 3066
ALPHA_a = 16 deg
DALPHA_a = 24 deg
T = 500 msec

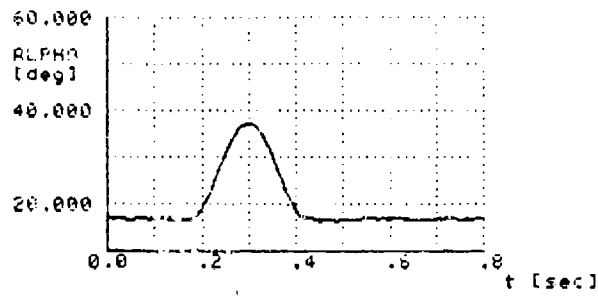




(1-COS) INPUT

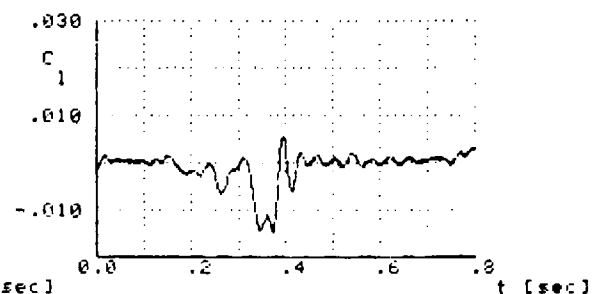
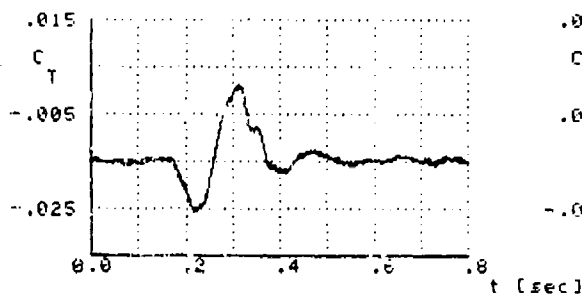
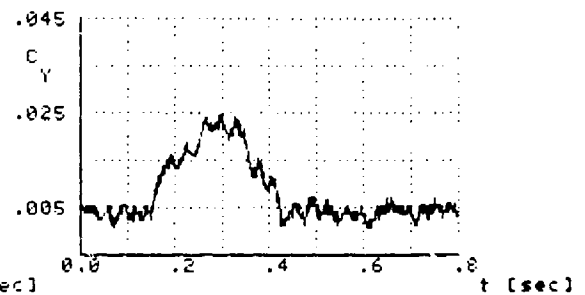
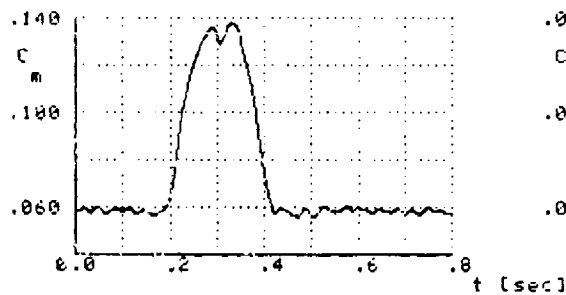
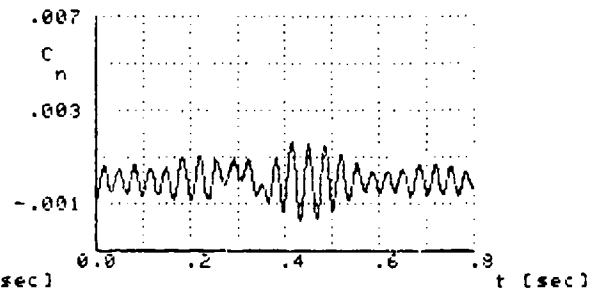
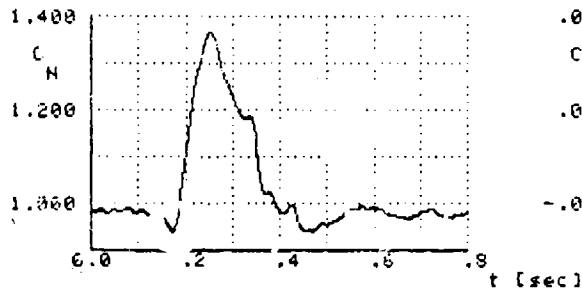
RUN = 2067
 ALPHA_a = 16 deg
 D₁ALPHA_a = 24 deg
 T = 333 msec

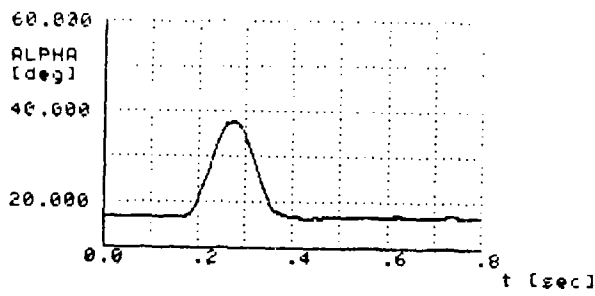




(1-COS INPUT

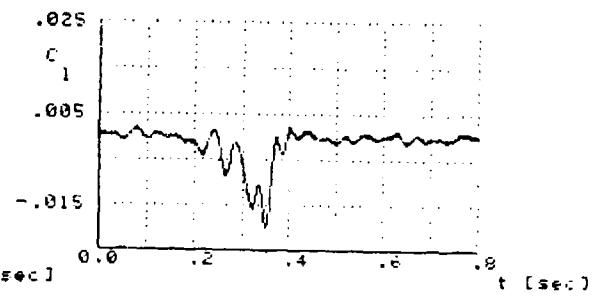
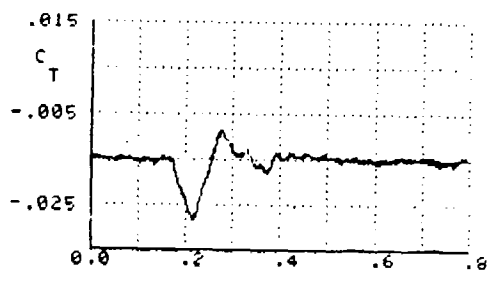
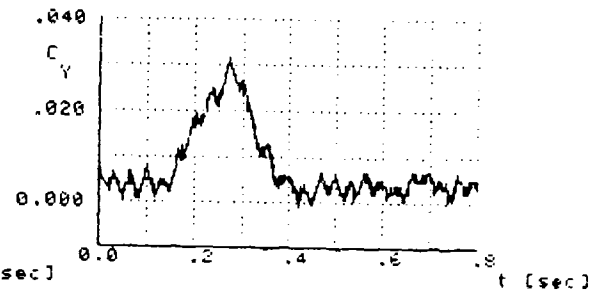
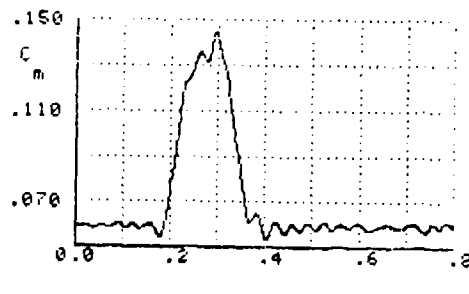
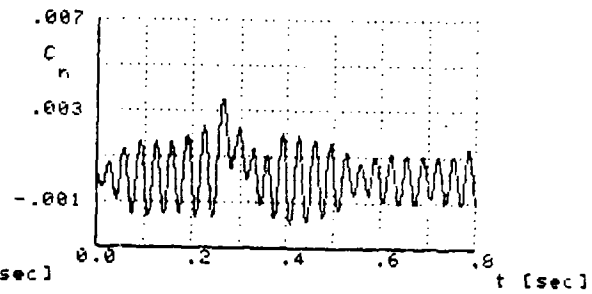
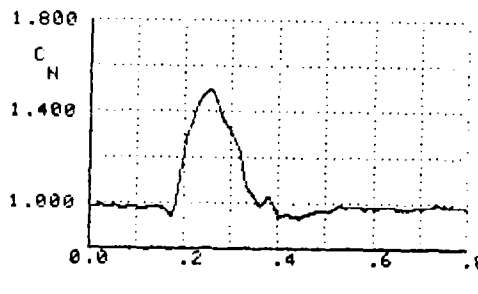
RUN = 1
 $\text{ALPHA}_0 = 16$ deg
 $\text{DALPHA}_0 = 24$ deg
 $T = 250$ msec

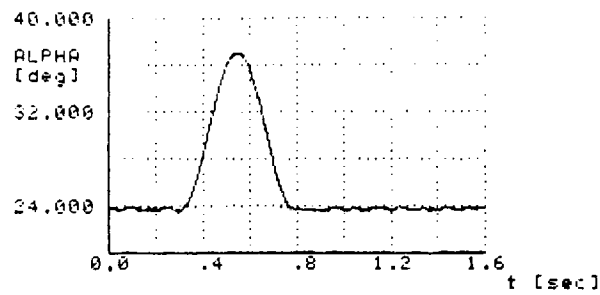




(1-COS INPUT

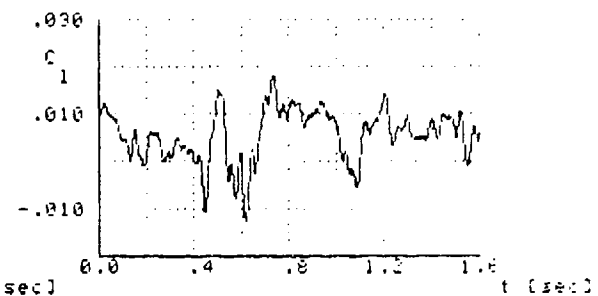
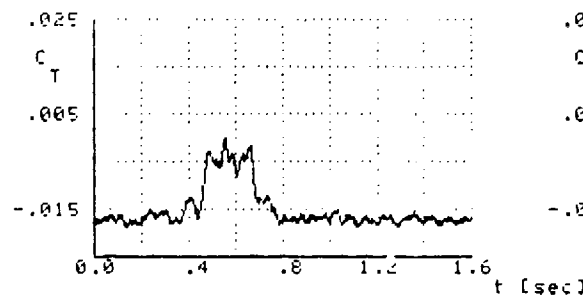
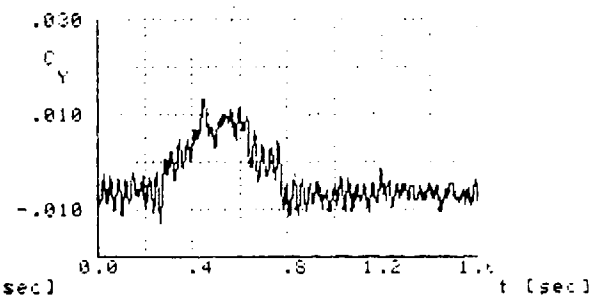
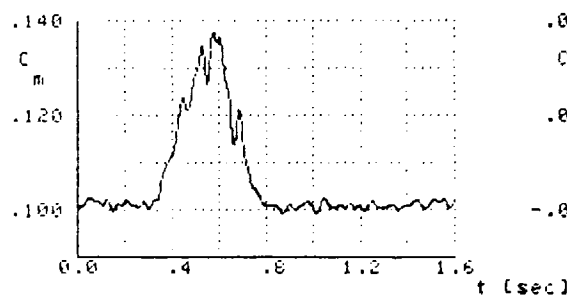
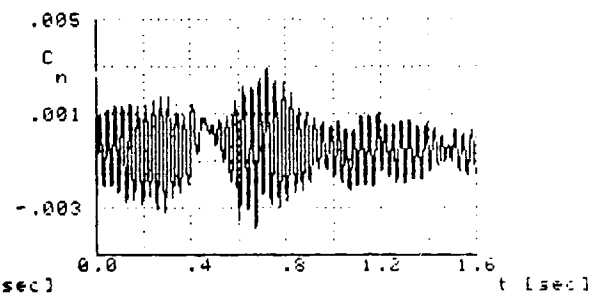
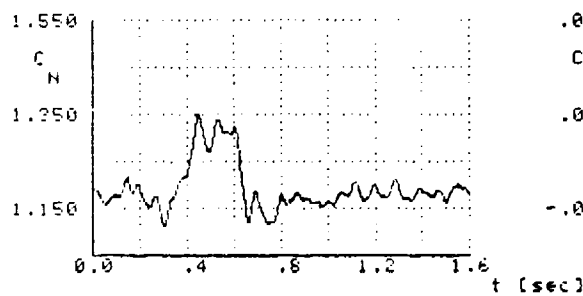
RUN = 3069
ALPHA_a = 16 deg
DALPHA_a = 24 deg
T = 200 msec

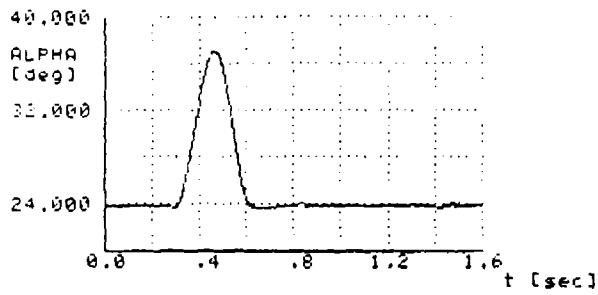




(1-COS) INPUT

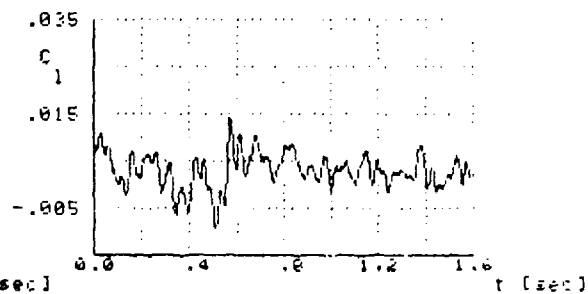
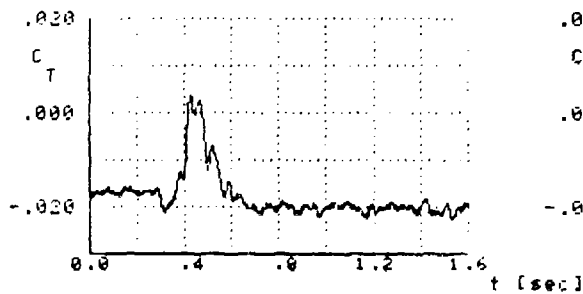
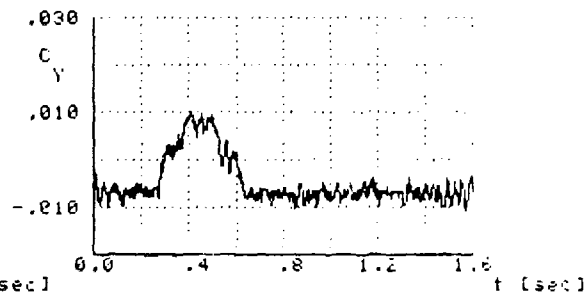
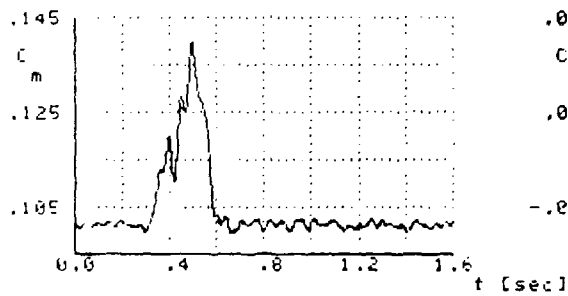
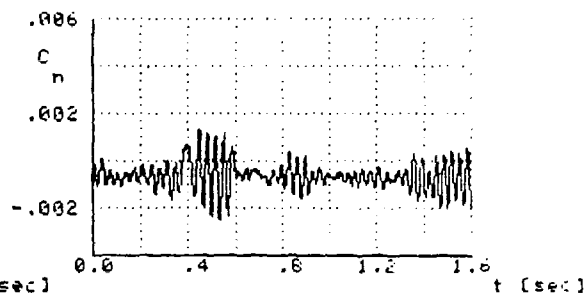
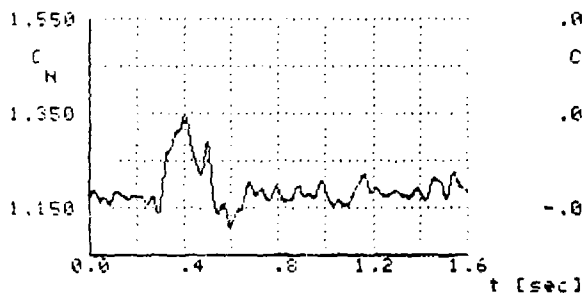
RUN = 3070
 $\text{ALPHA}_a = 24 \text{ deg}$
 $\text{DALPHA}_a = 16 \text{ deg}$
 $T = 500 \text{ msec}$

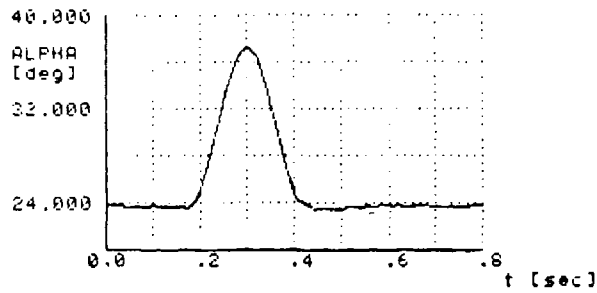




(1-COS) INPUT

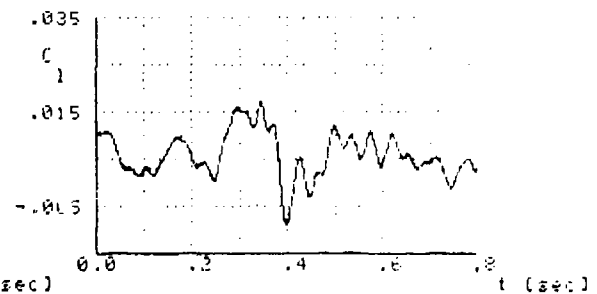
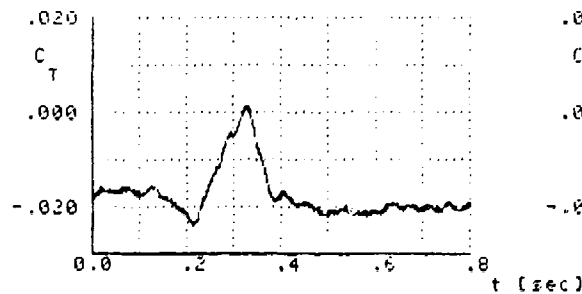
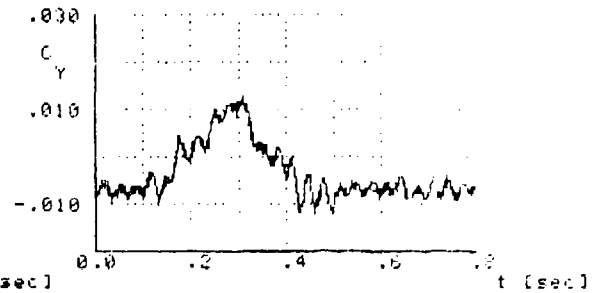
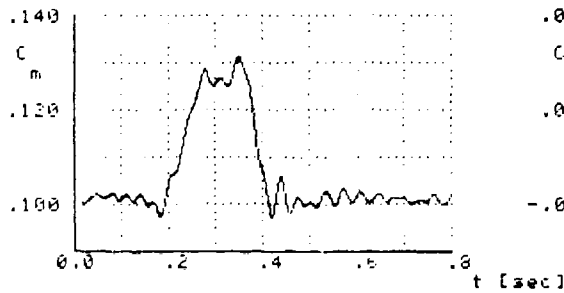
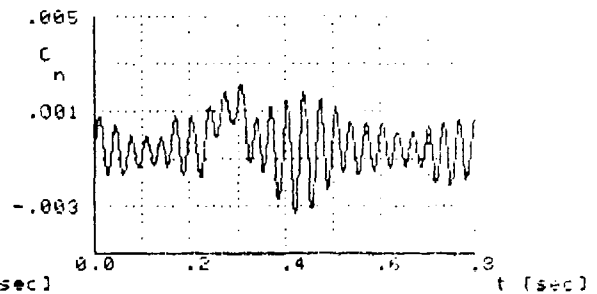
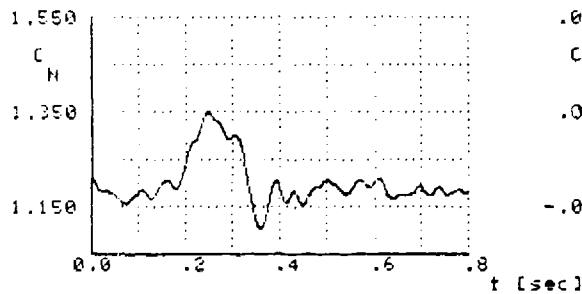
RUN = 3071
 ALPHA_a = 24 deg
 DIALPHA_a = 16 deg
 T = 333 msec

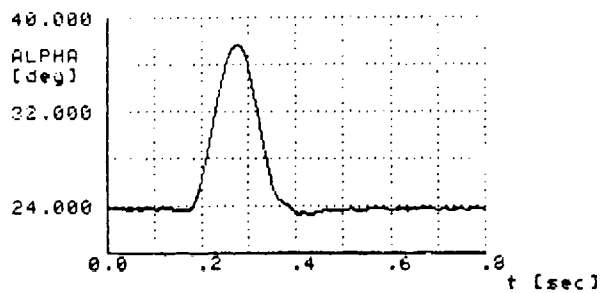




(1-COS) INPUT

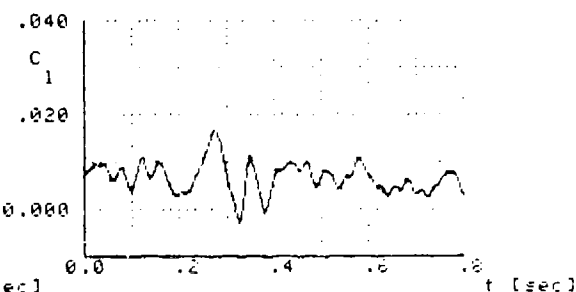
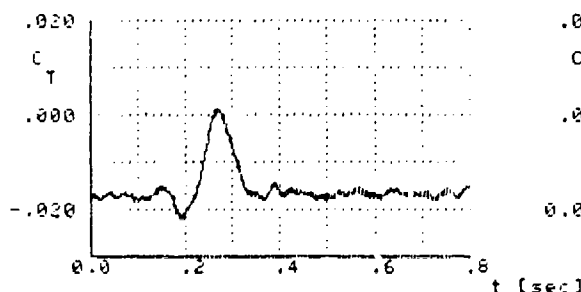
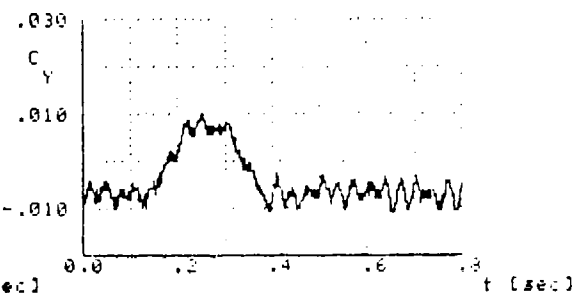
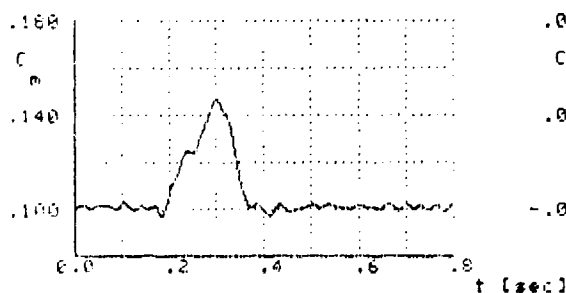
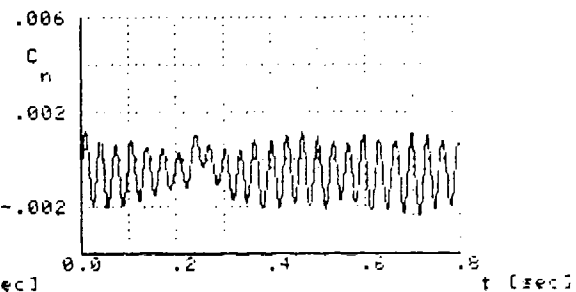
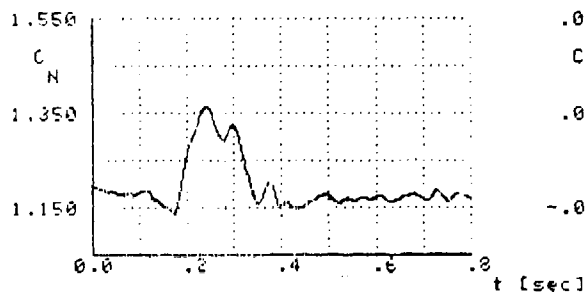
RUN = 3072
 ALPHA_a = 24 deg
 DALPHA_a = 16 deg
 T = 250 msec

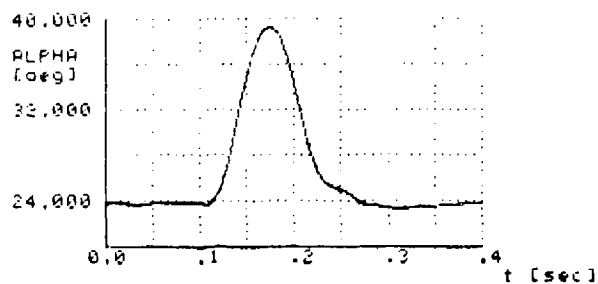




(1-COS) INPUT

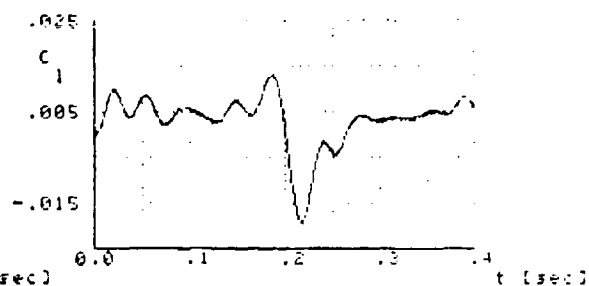
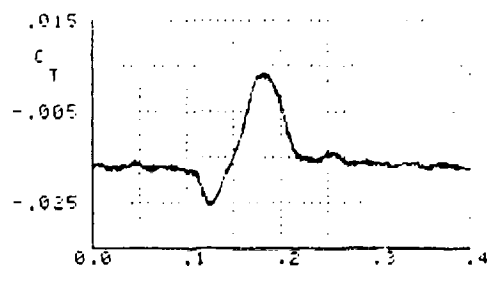
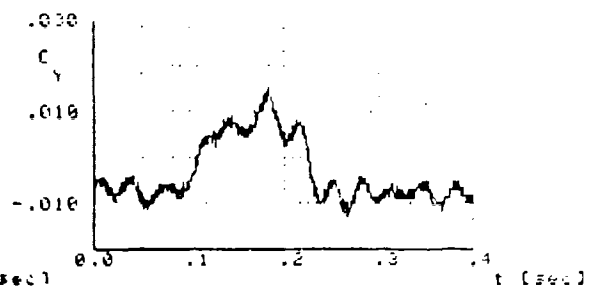
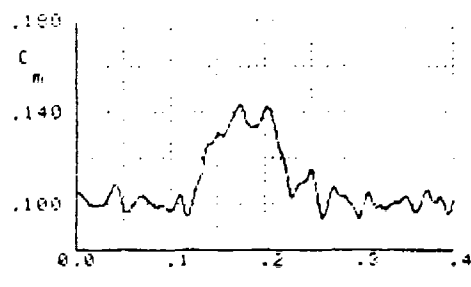
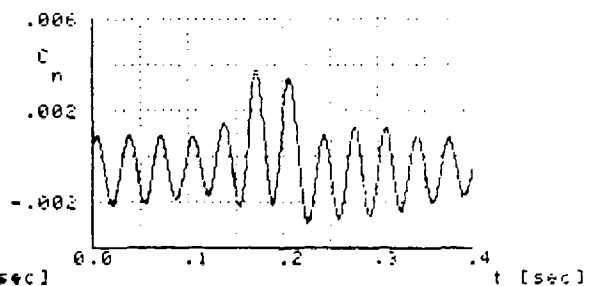
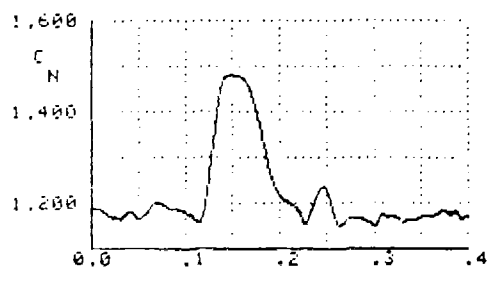
RUN = 3073
 ALPHA_a = 24 deg
 DALPHA_a = 16 deg
 T = 200 msec

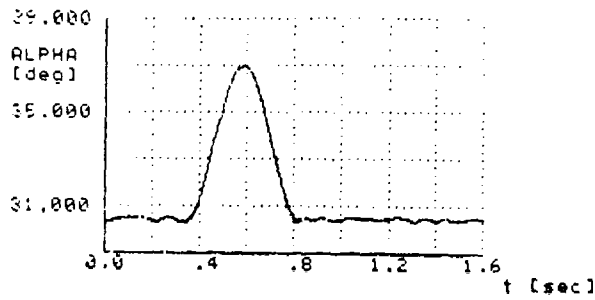




(1-COS) INPUT

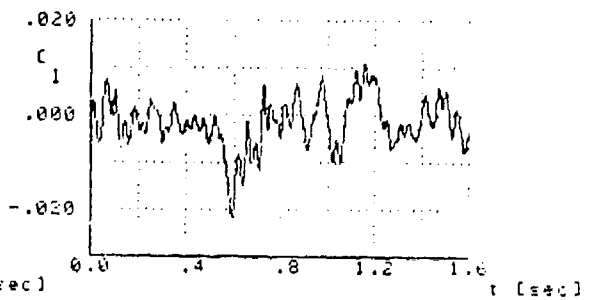
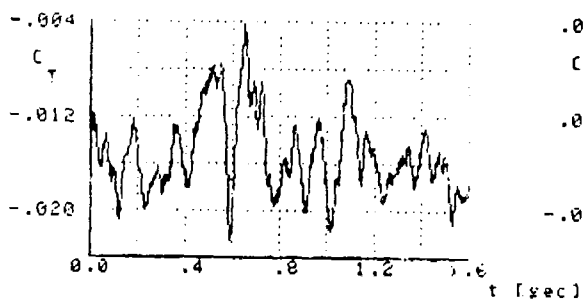
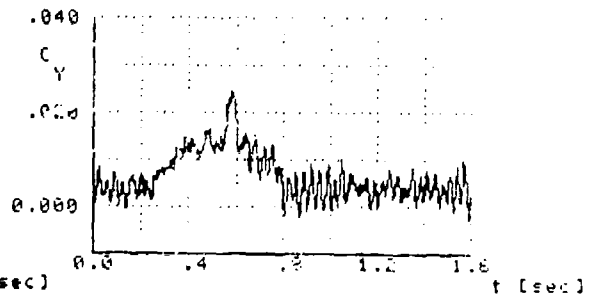
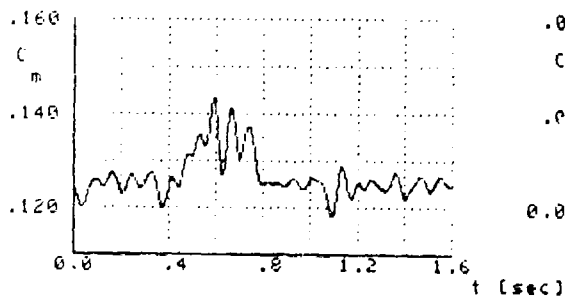
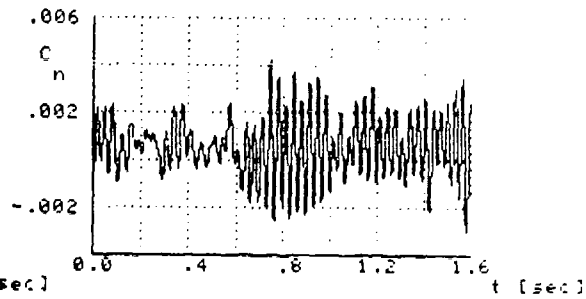
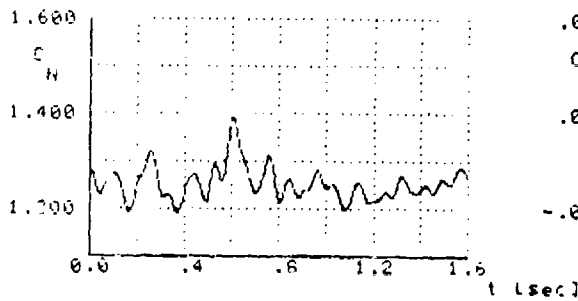
PUN = 3074
 $\text{ALPHA}_a = 24 \text{ deg}$
 $\text{DALPHA}_a = 16 \text{ deg}$
 $T = 125 \text{ msec}$

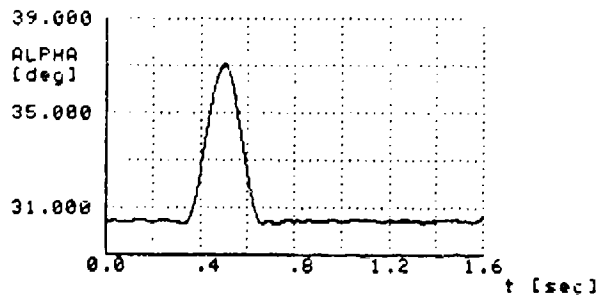




(1-COS) INPUT

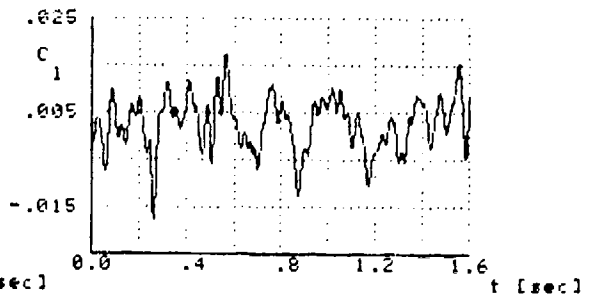
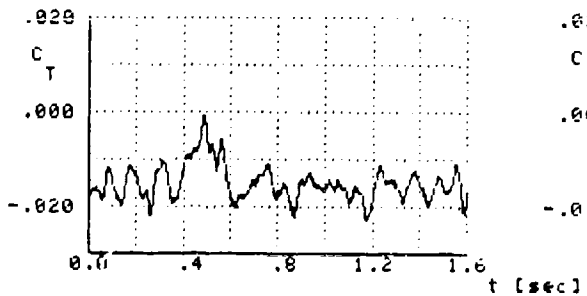
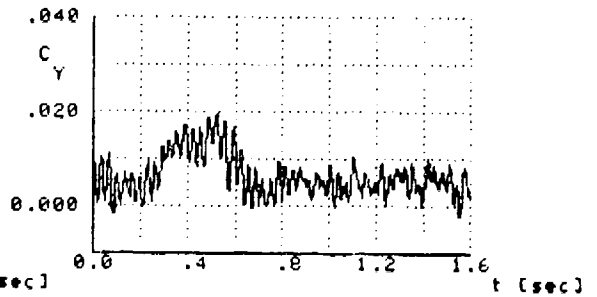
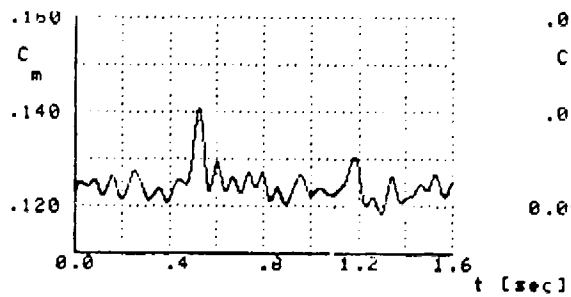
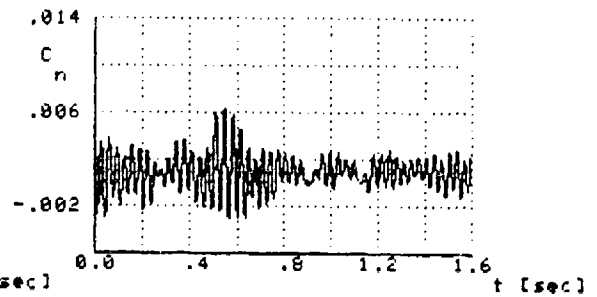
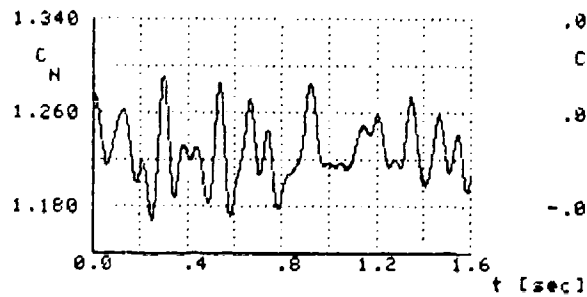
PUN = 3075
ALPHA₀ = 32 deg
DALPHA₀ = 8 deg
T = 500 msec

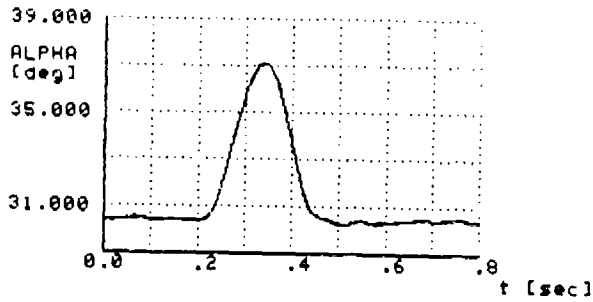




(1-COS) INPUT

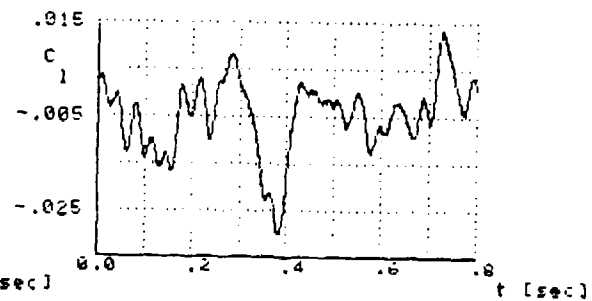
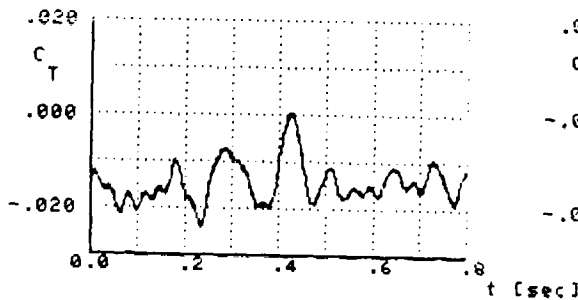
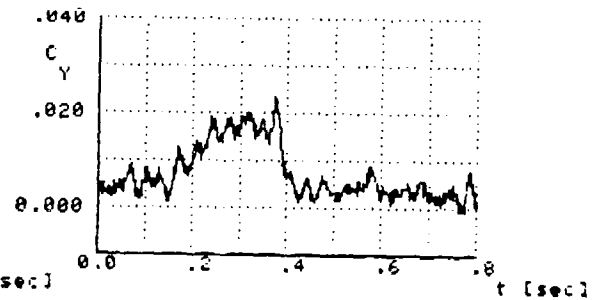
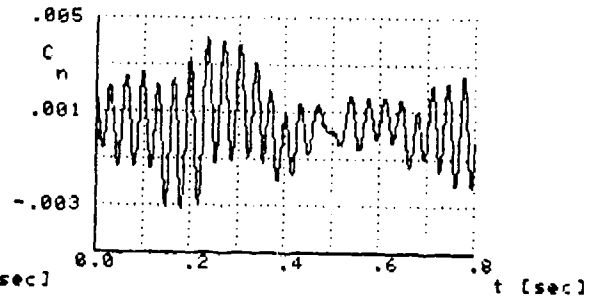
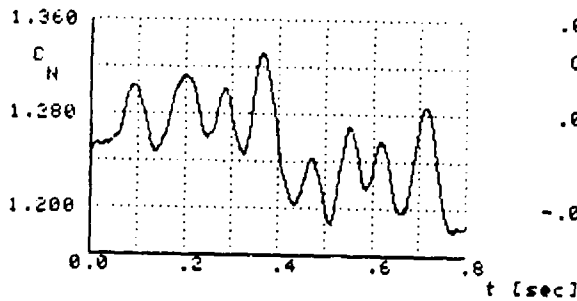
RUN = 3076
ALPHA_A = 32 deg
DALPHA_A = 8 deg
T = 333 msec

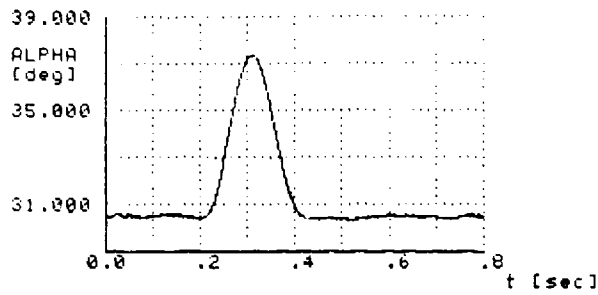




(1-COS) INPUT

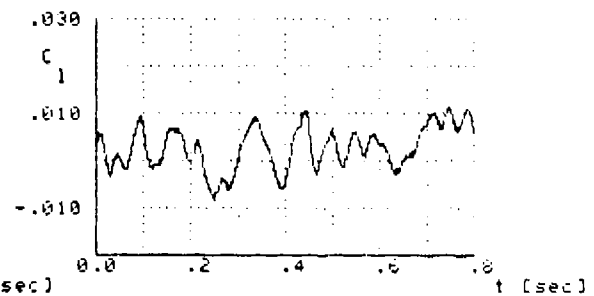
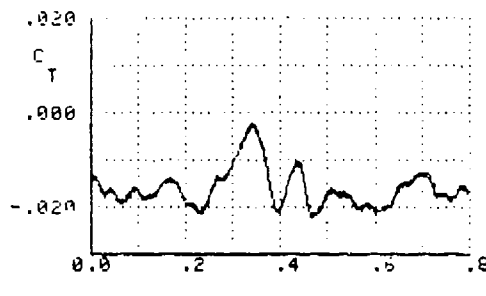
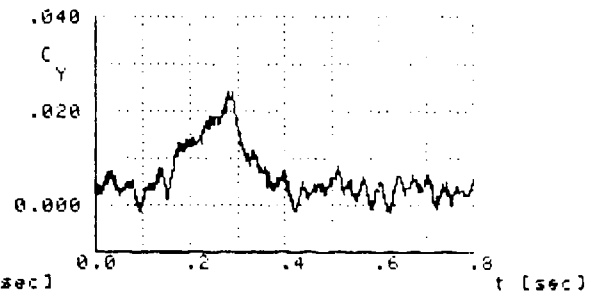
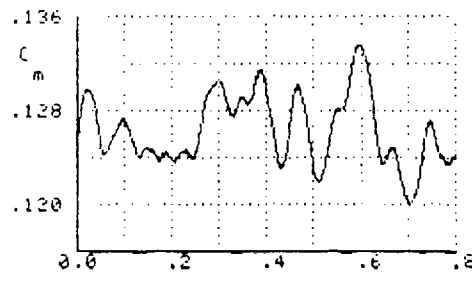
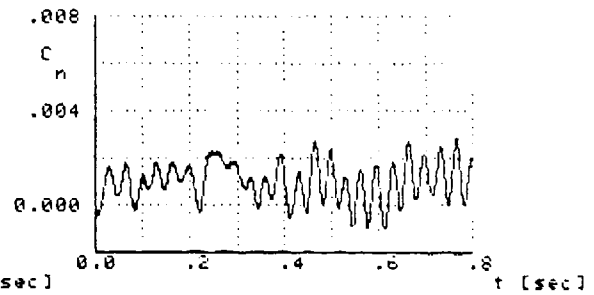
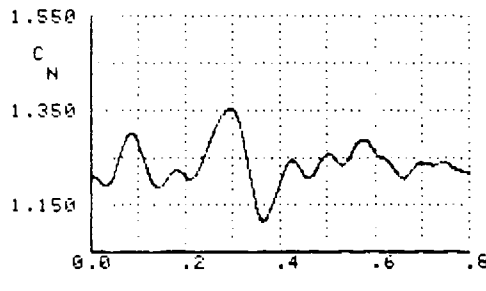
RUN = 3077
ALPHA₀ = 32 deg
DALPHA₀ = 8 deg
T = 250 msec

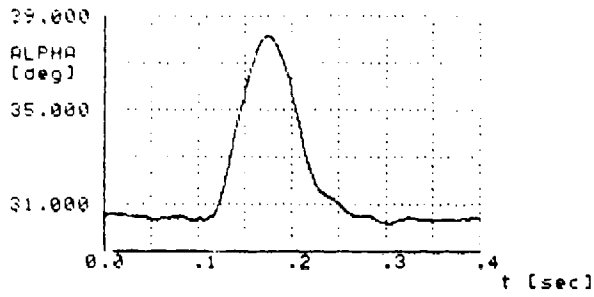




(1-COS) INPUT

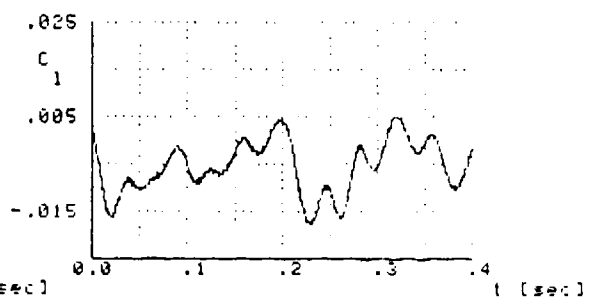
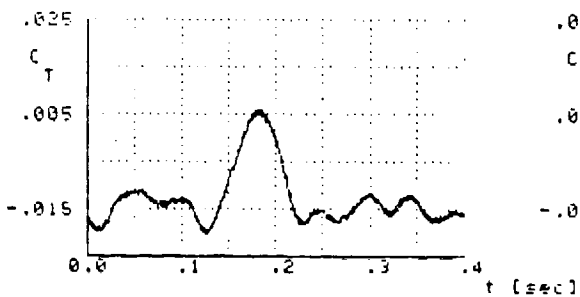
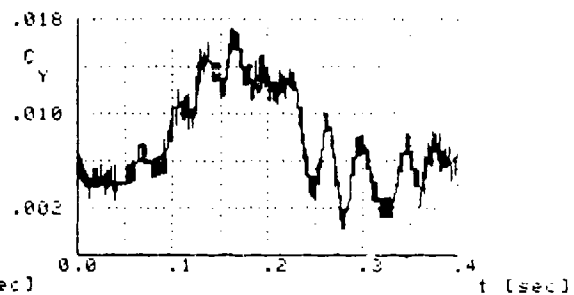
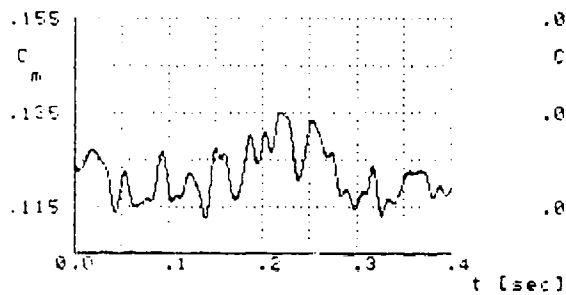
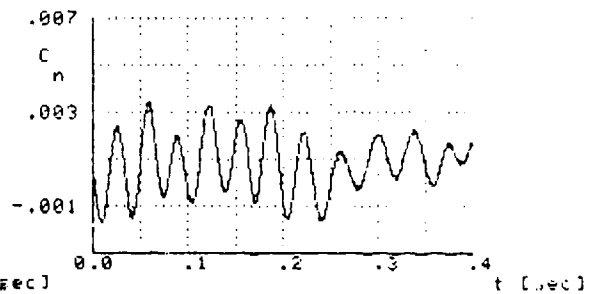
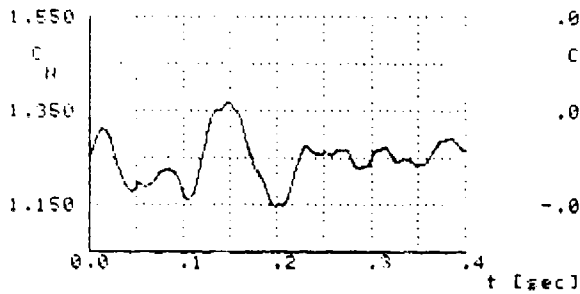
RUN = 3070
 $\text{ALPHA}_a = 32 \text{ deg}$
 $\text{DALPHA}_a = 6 \text{ deg}$
 $T = 200 \text{ msec}$

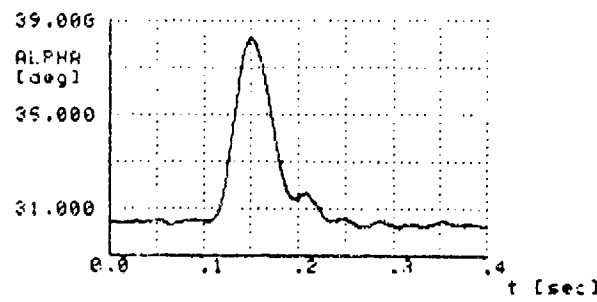




(1-COS) INPUT

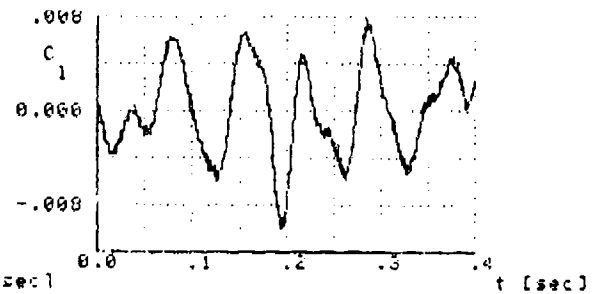
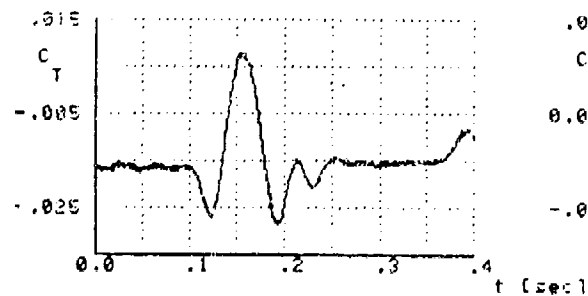
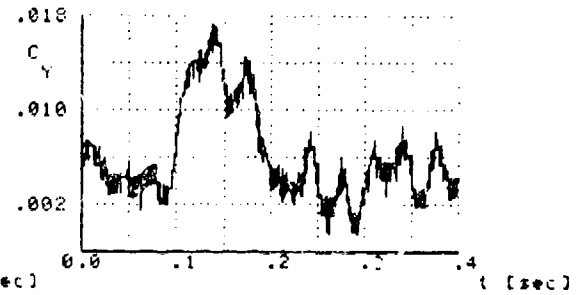
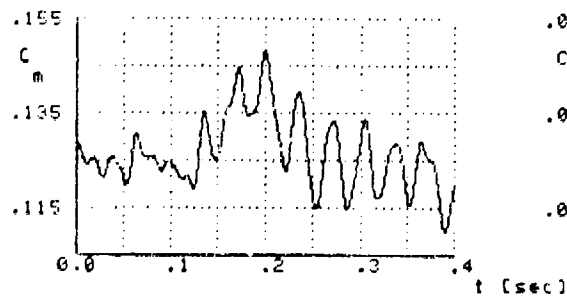
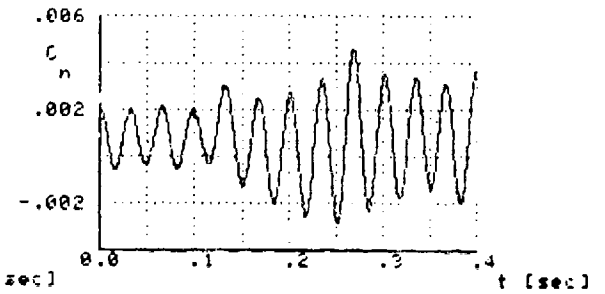
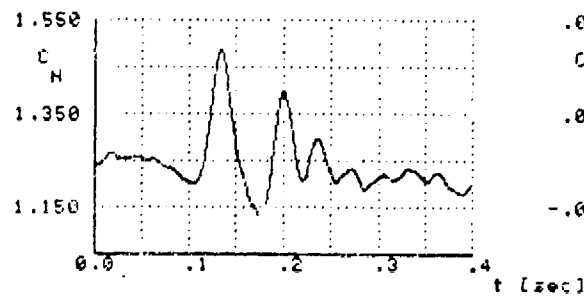
RUN = 3079
 ALPHA_a = 32 deg
 D_{ALPHA} = 6 deg
 T = 125 msec

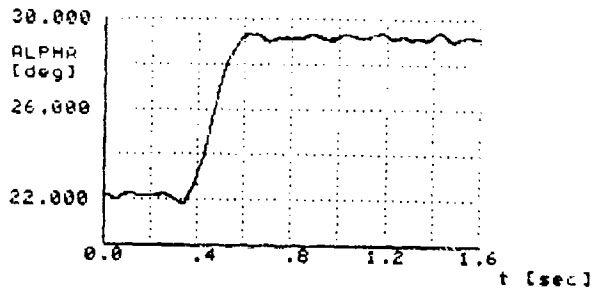




(1-COS) INPUT

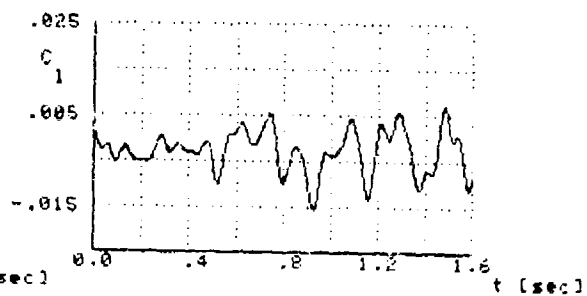
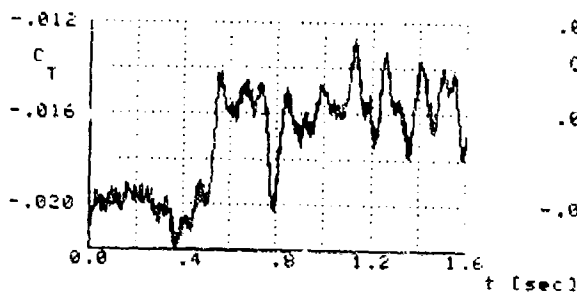
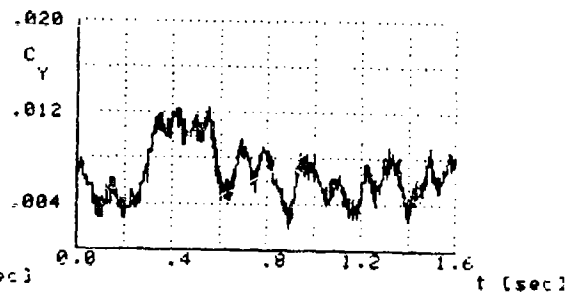
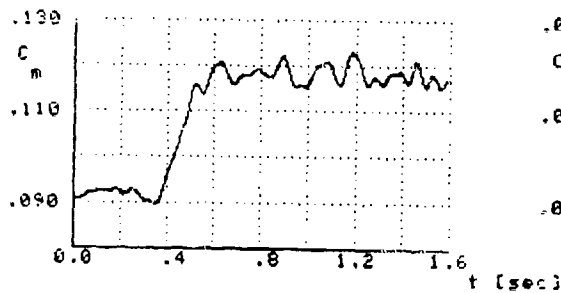
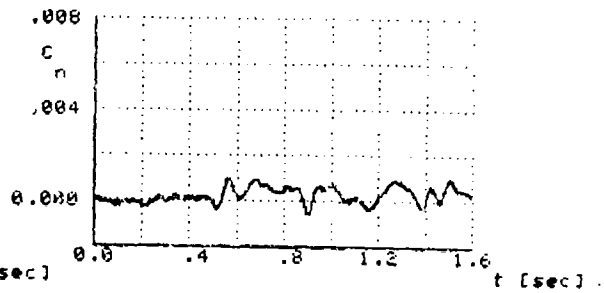
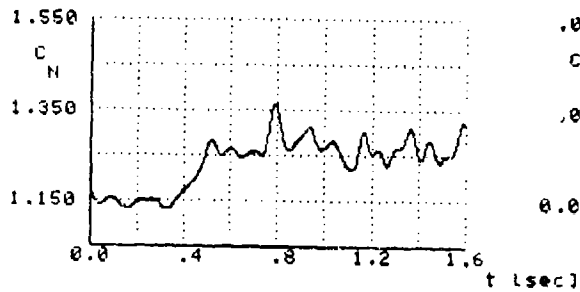
RUN = 3080
 ALPHA_a = 32 deg
 DIALPHA_a = 8 deg
 T = 83 msec

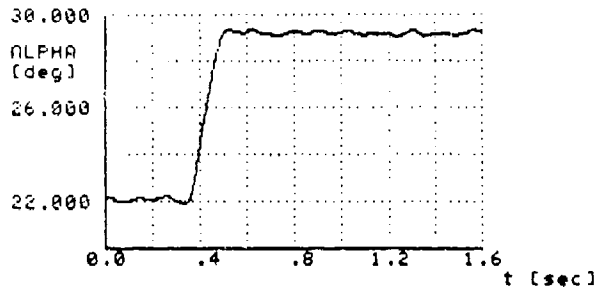




HALF (1-COS) INPUT NOSE UP

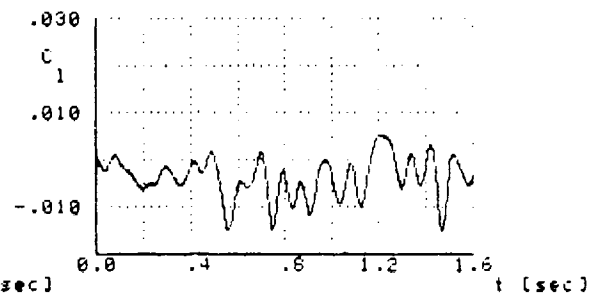
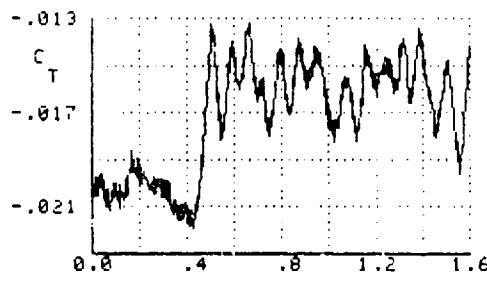
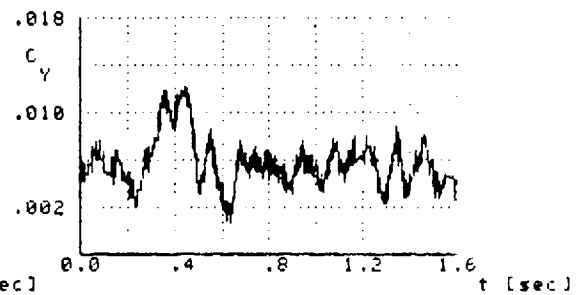
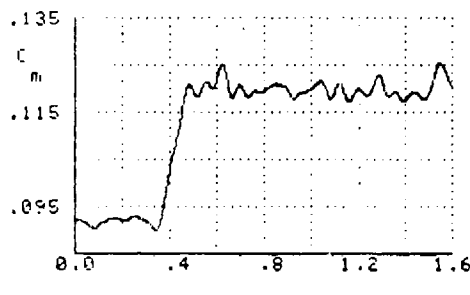
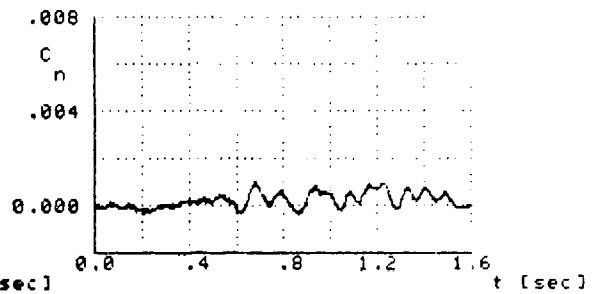
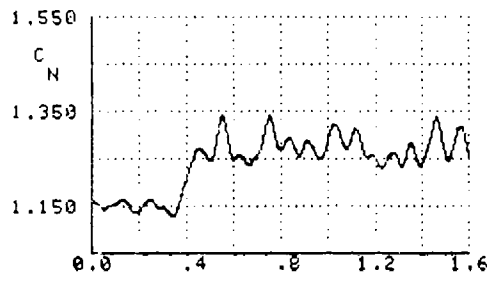
RUN = 3013
 $\text{ALPHA}_0 = 22 \text{ deg}$
 $\text{DALPHA}_0 = 8 \text{ deg}$
 $T/2 = 250 \text{ msec}$

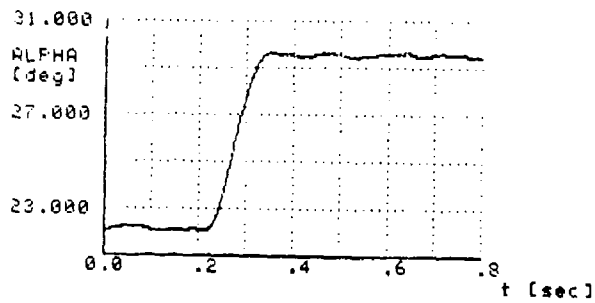




HALF (1-COS) INPUT NOSE UP

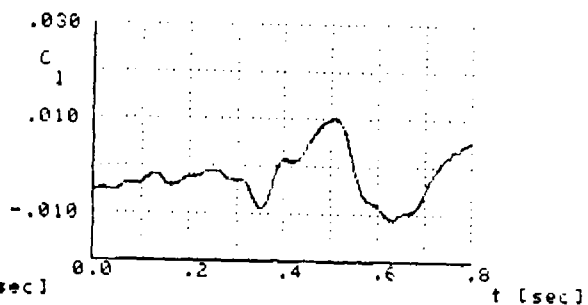
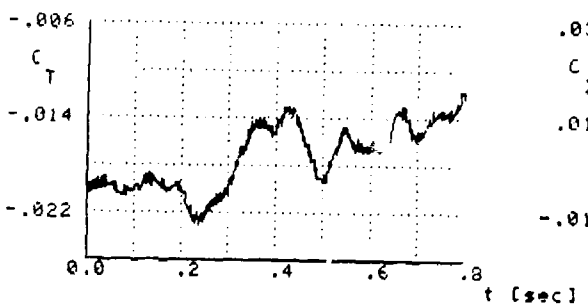
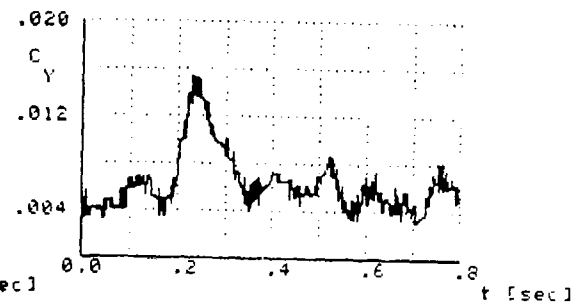
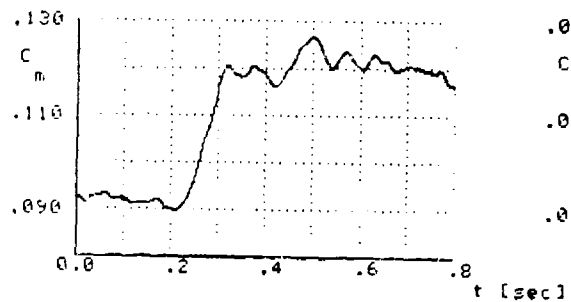
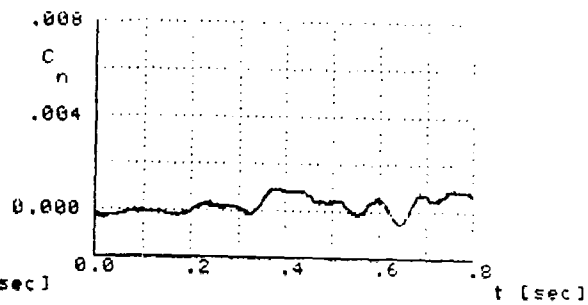
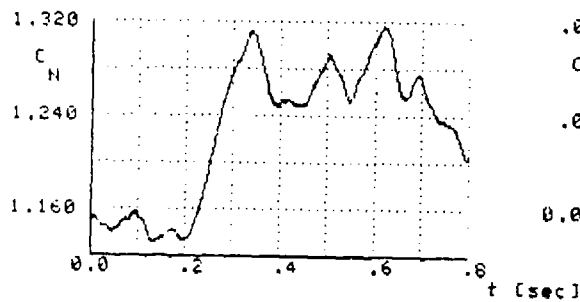
RUN = 3014
 ALPHA_a = 22 deg
 DIALPHA_a = 8 deg
 T/2 = 167 msec

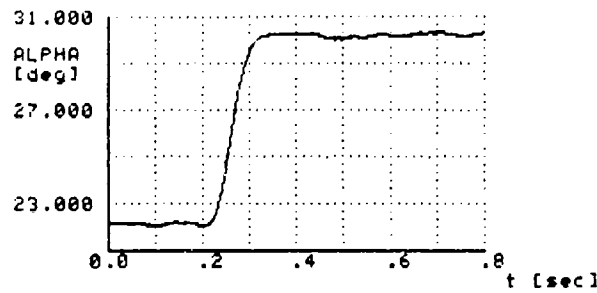




HALF (1-COS) INPUT NOSE UP

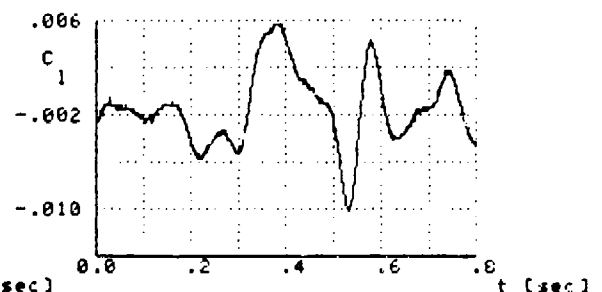
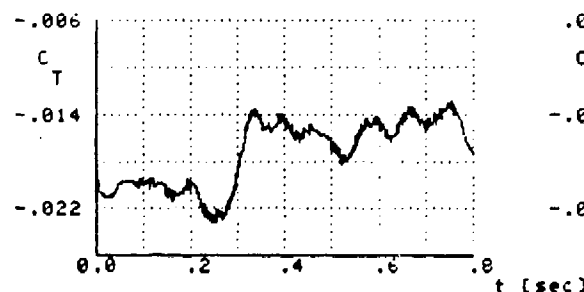
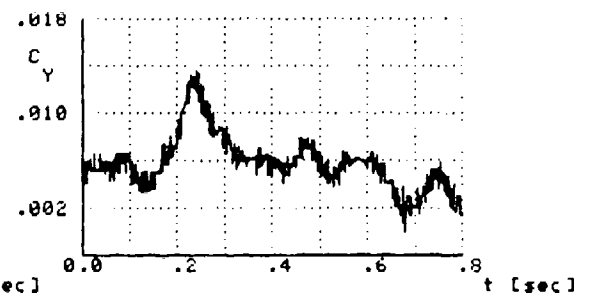
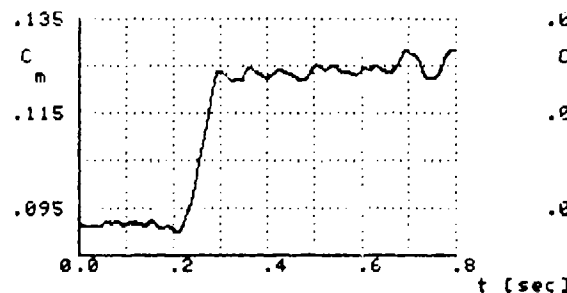
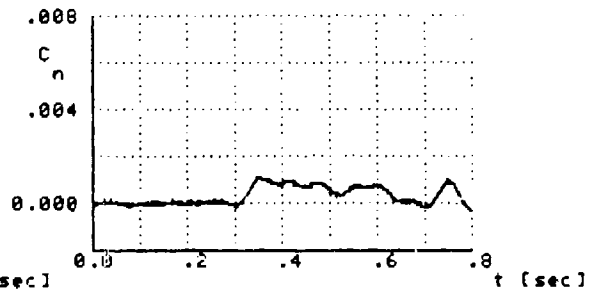
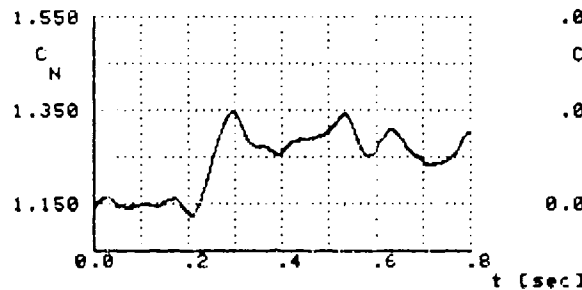
RUN = 3015
 ALPHA₀ = 22 deg
 ΔALPHA_Δ = 8 deg
 T/2 = 125 msec

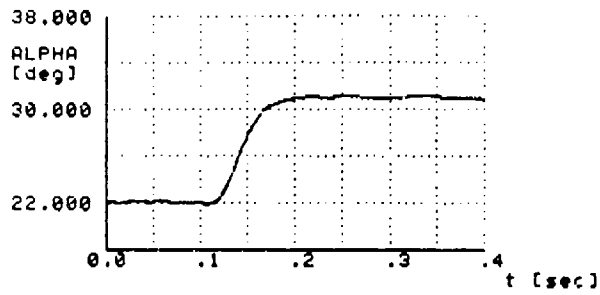




HALF (1-COS) INPUT NOSE UP

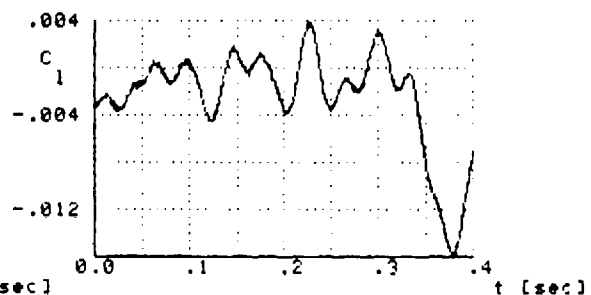
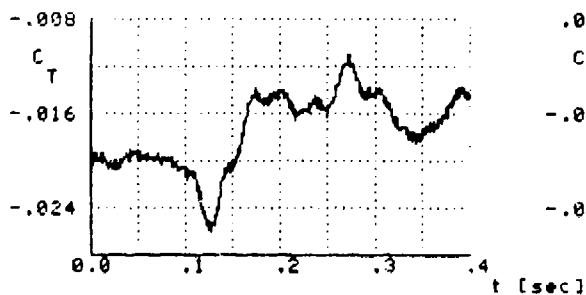
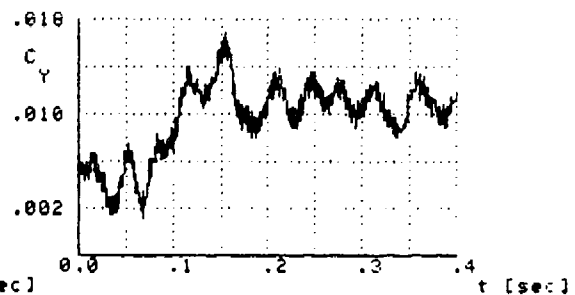
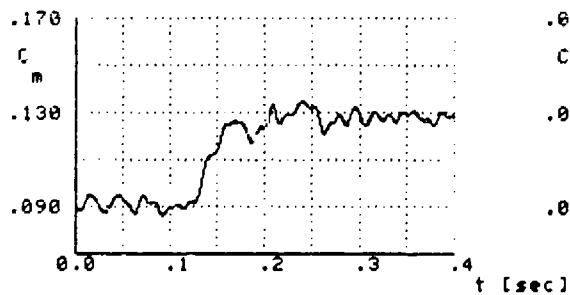
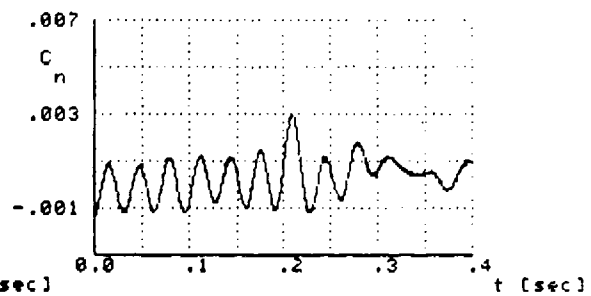
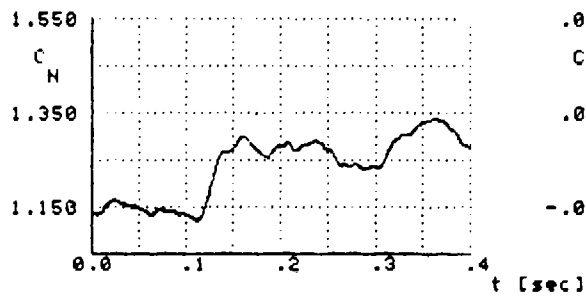
RUN = 3016
ALPHA₀ = 22 deg
ΔALPHA₀ = 8 deg
T/2 = 100 msec

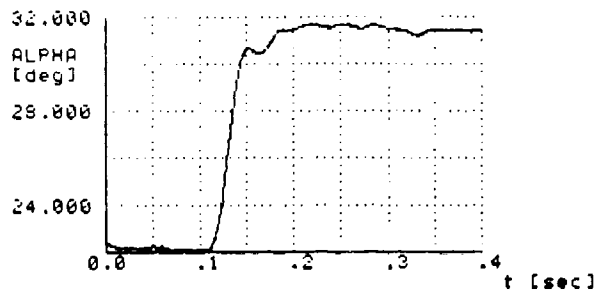




HALF (1-COS) INPUT NOSE UP

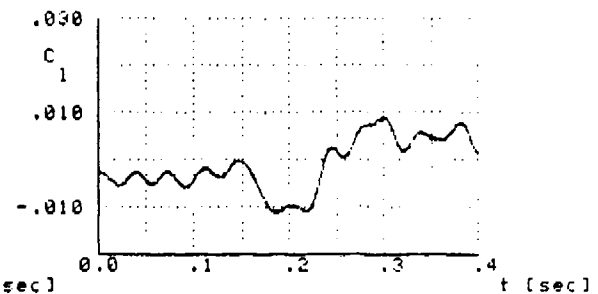
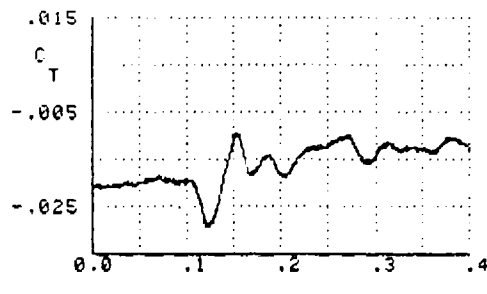
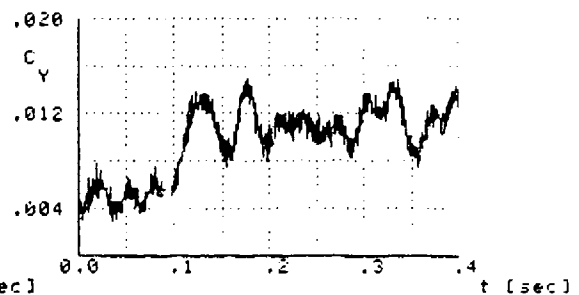
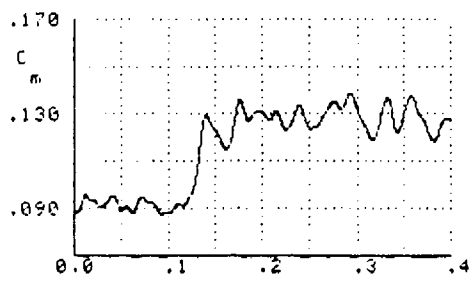
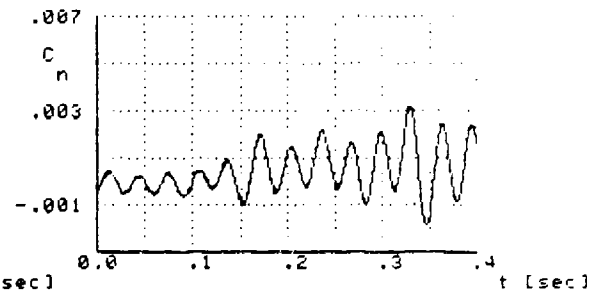
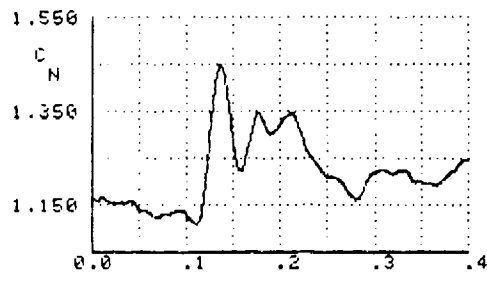
RUN = 3017
 ALPHA_a = 22 deg
 DALPHA_a = 8 deg
 T/2 = 63 msec

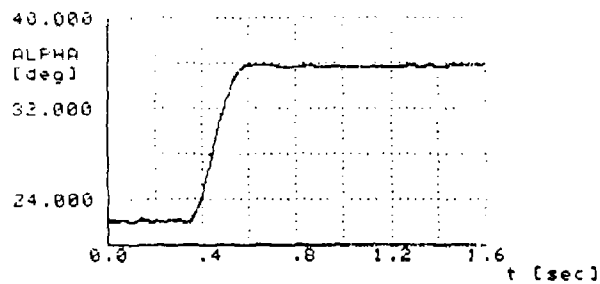




HALF (1-COS) INPUT NOSE UP

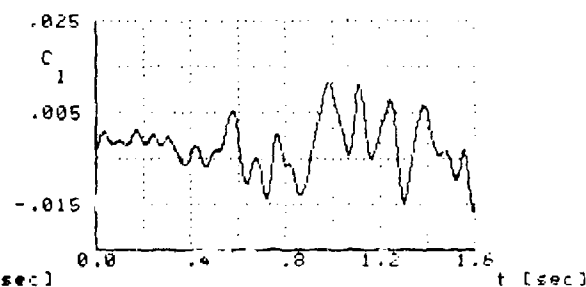
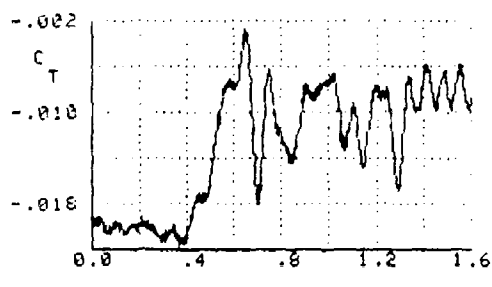
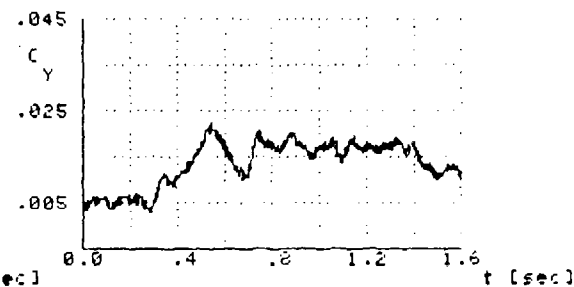
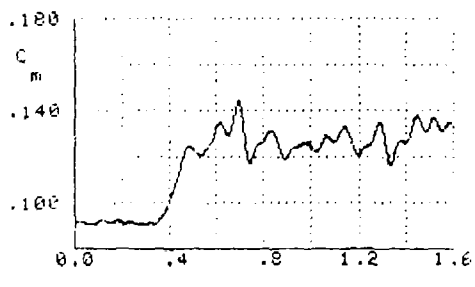
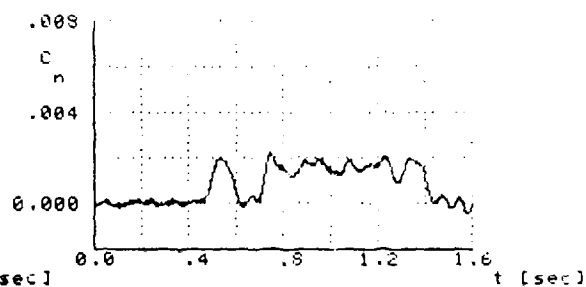
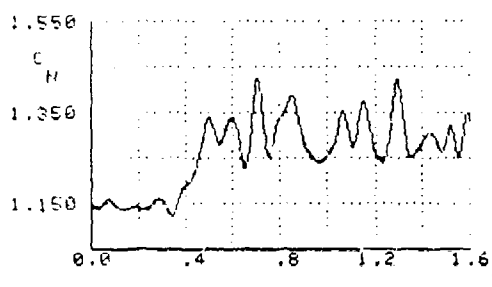
RUN = 3018
 ALPHA_a = 22 deg
 DALPHA_a = 8 deg
 T/2 = 42 msec

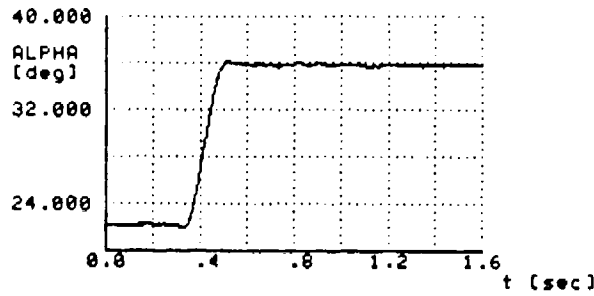




HALF (1-COS) INPUT
NOSE UP

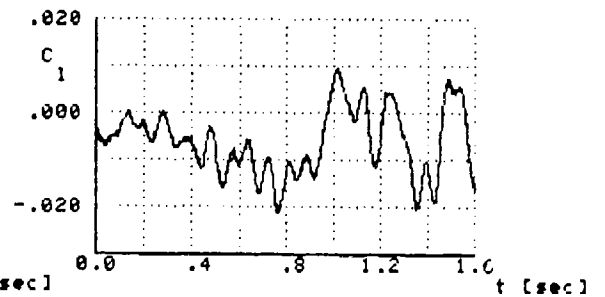
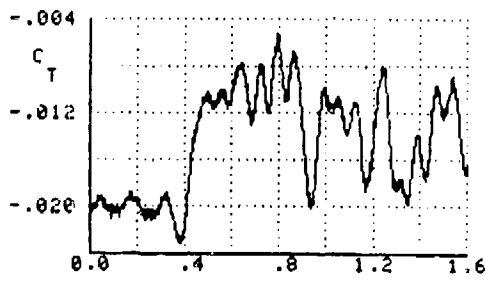
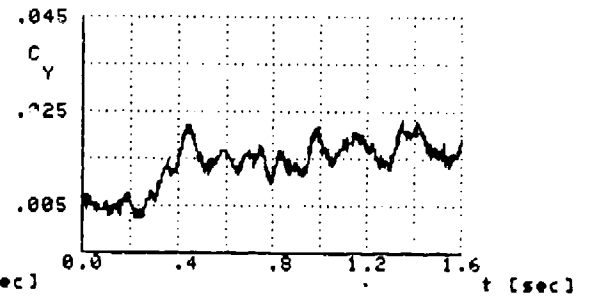
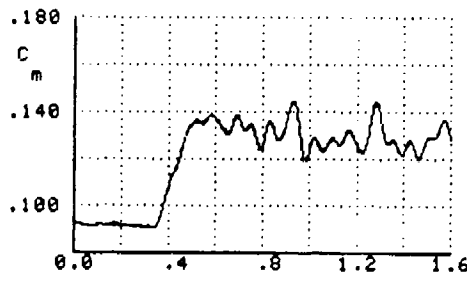
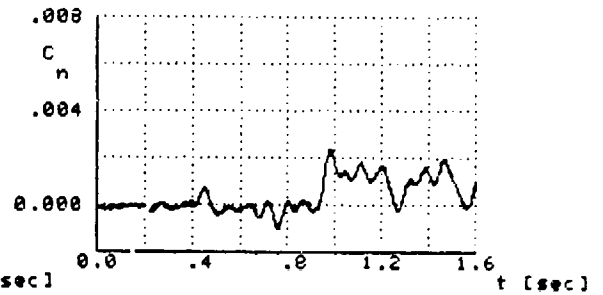
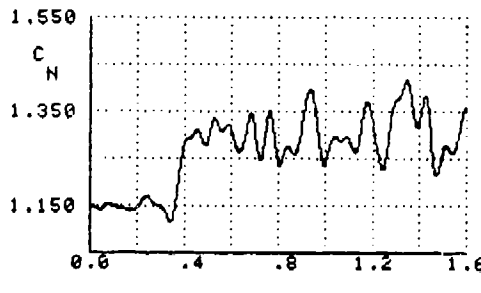
RUN = 3019
 α_a = 22 deg
 $\Delta\alpha_a$ = 16 deg
 $T/2$ = 250 msec

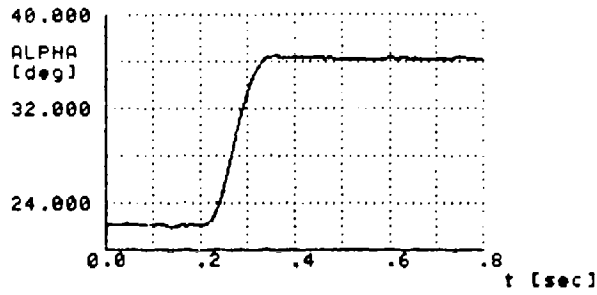




HALF (1-COS) INPUT NOSE UP

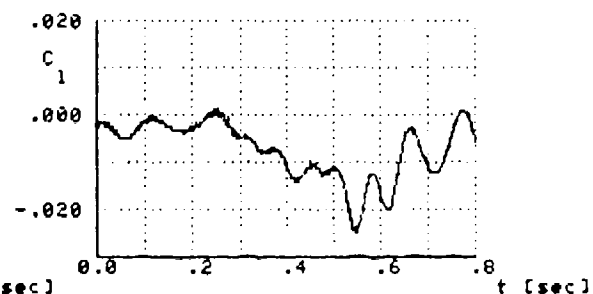
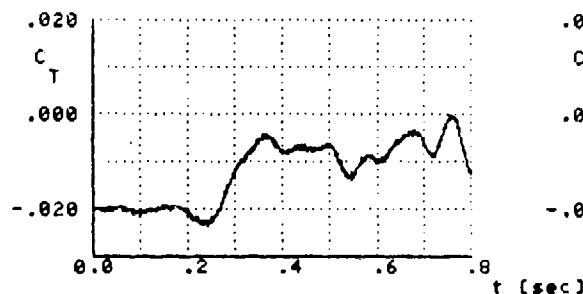
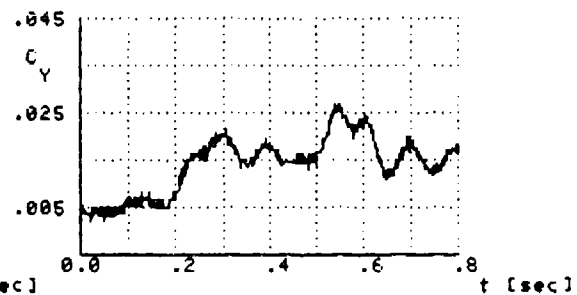
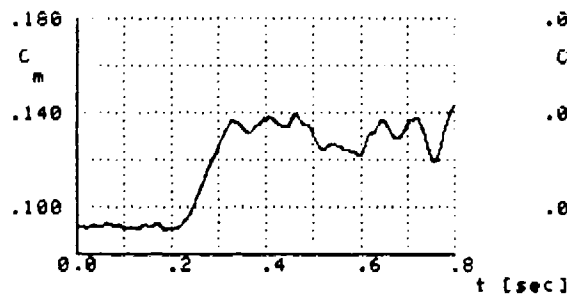
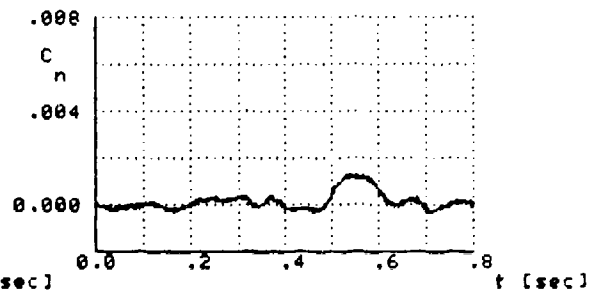
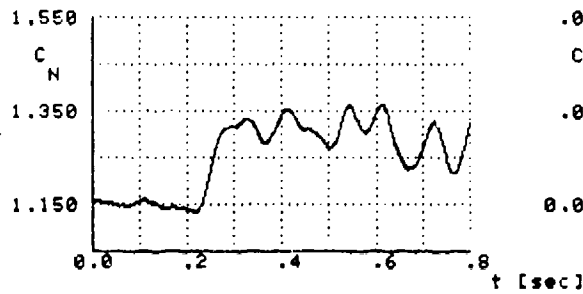
RUN = 3020
ALPHA_a = 22 deg
DALPHA_a = 16 deg
T/2 = 167 msec

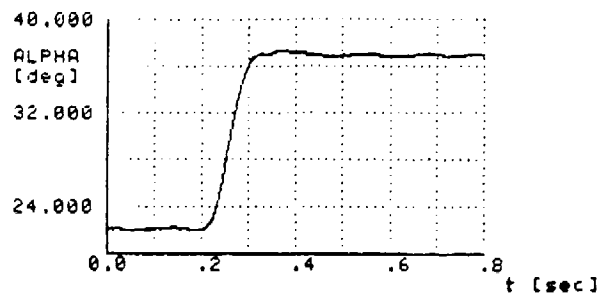




HALF (1-COS) INPUT NOSE UP

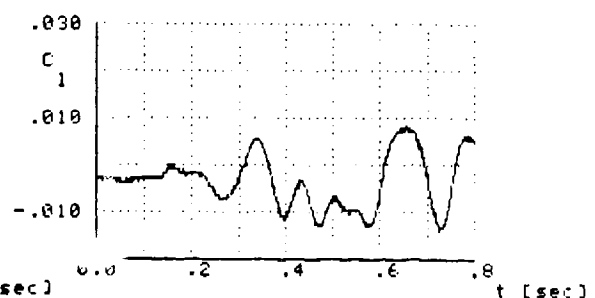
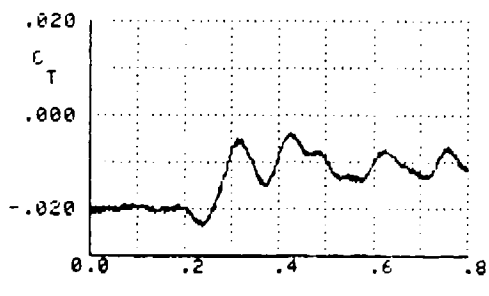
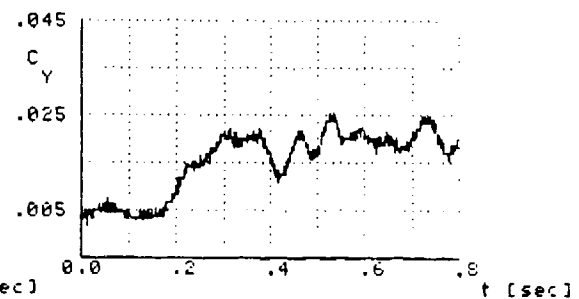
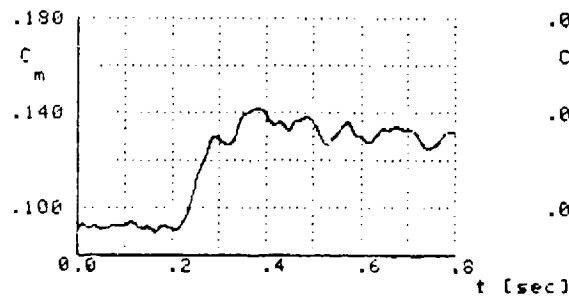
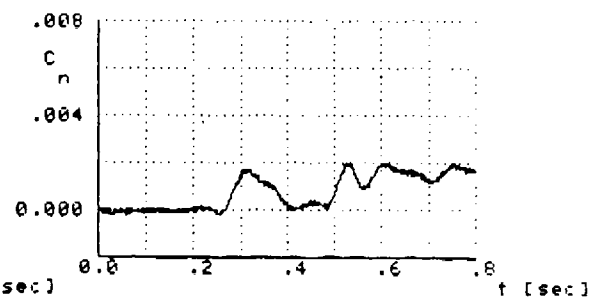
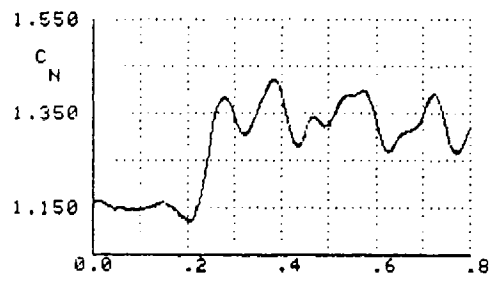
RUN = 3021
ALPHA_A = 22 deg
DALPHA_A = 16 deg
T/2 = 125 msec

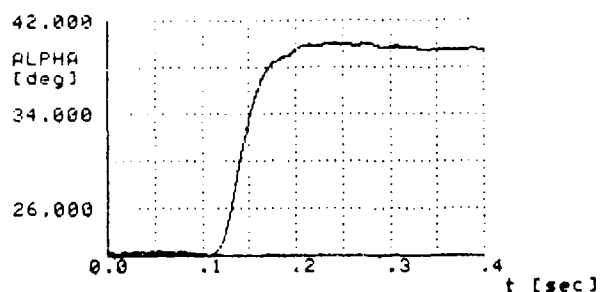




HALF (1-COS) INPUT NOSE UP

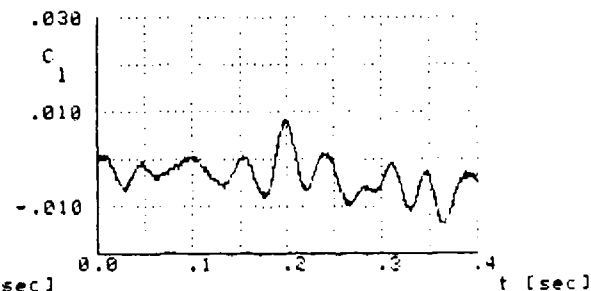
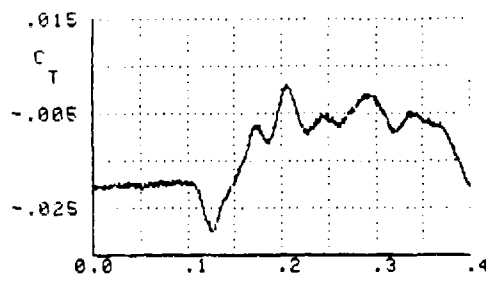
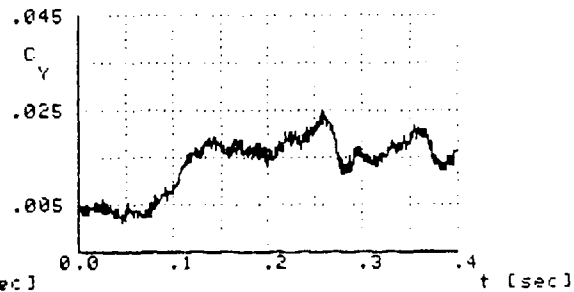
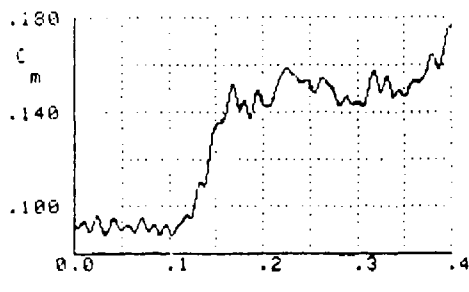
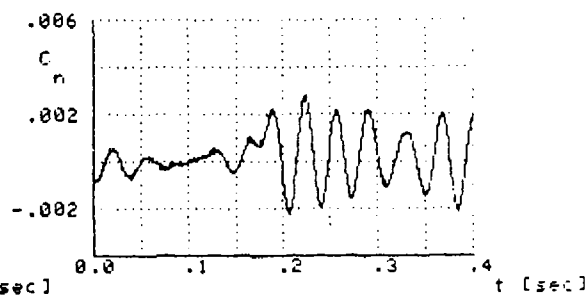
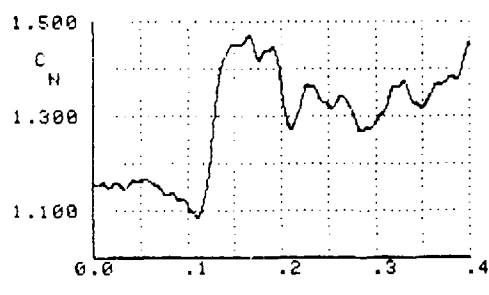
RUN = 3022
 ALPHA_a = 22 deg
 DALPHA_a = 16 deg
 T/2 = 100 msec

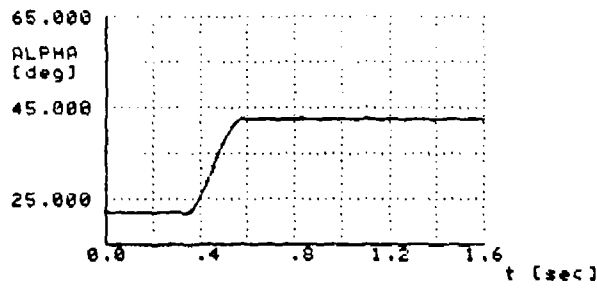




HALF (1-COS) INPUT NOSE UP

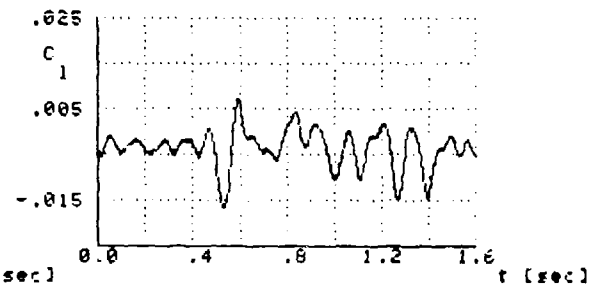
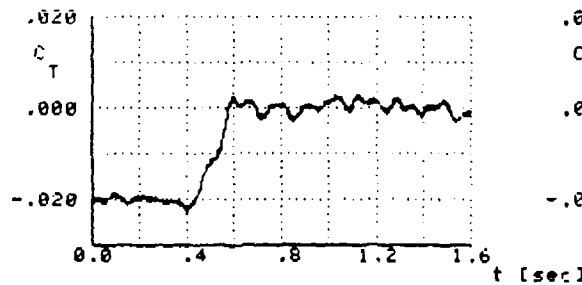
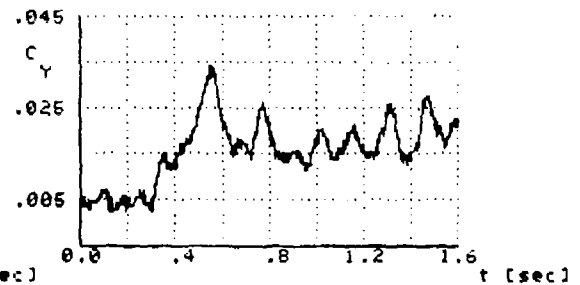
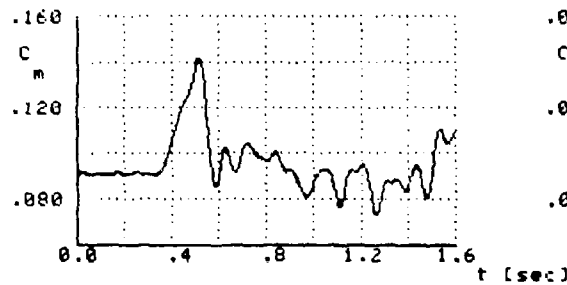
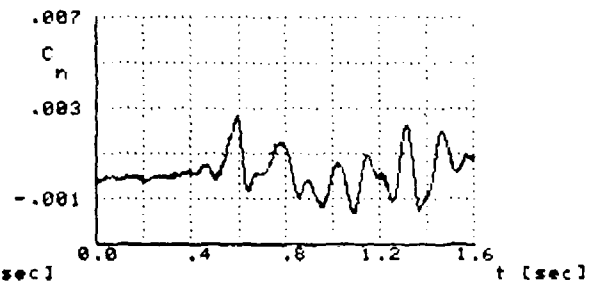
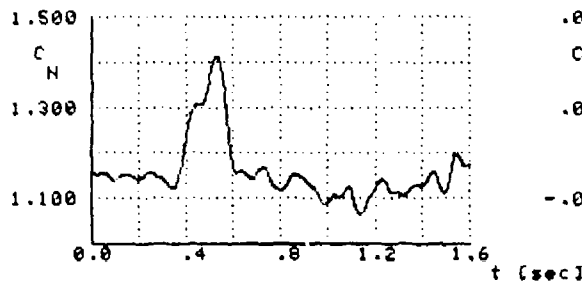
RUN = 3023
 α_a = 22 deg
 $\Delta\alpha_a$ = 16 deg
 $T/2$ = 63 msec

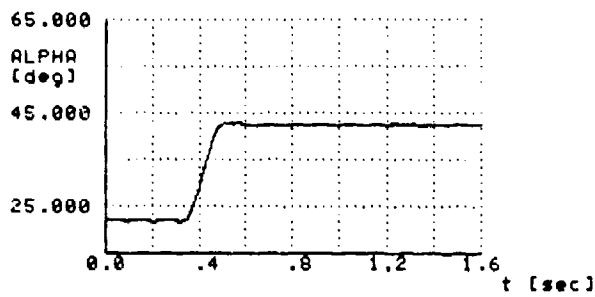




HALF (1-COS) INPUT NOSE UP

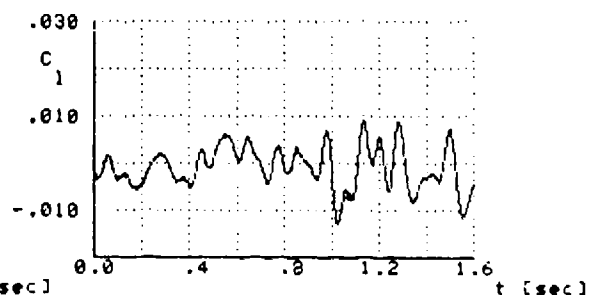
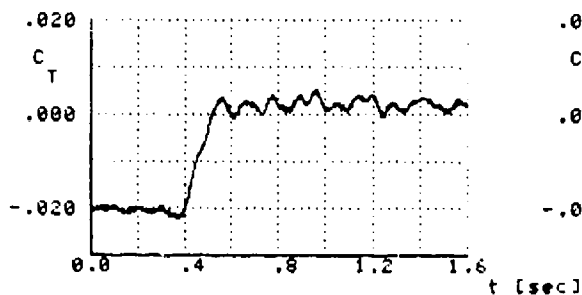
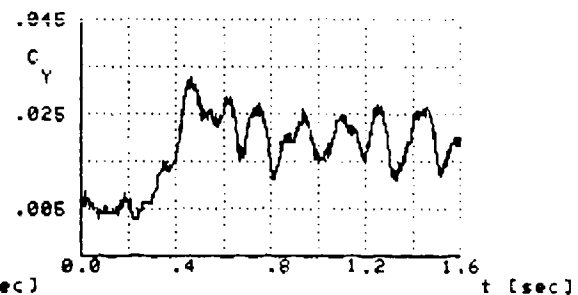
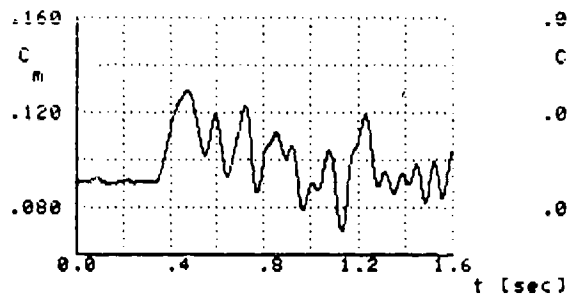
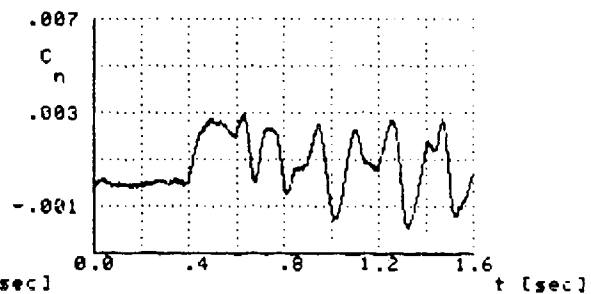
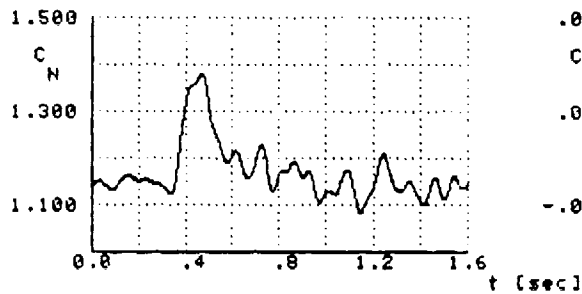
RUN = 3024
 ALPHA₀ = 22 deg
 DALPHA₀ = 24 deg
 T/2 = 250 msec

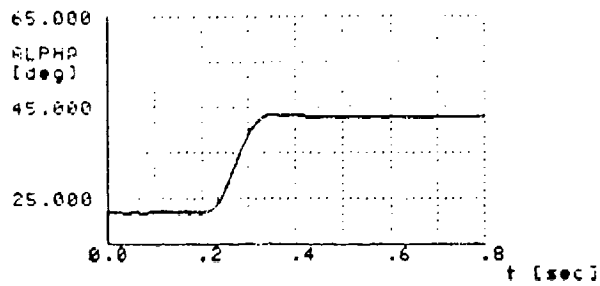




HALF (1-COS) INPUT NOSE UP

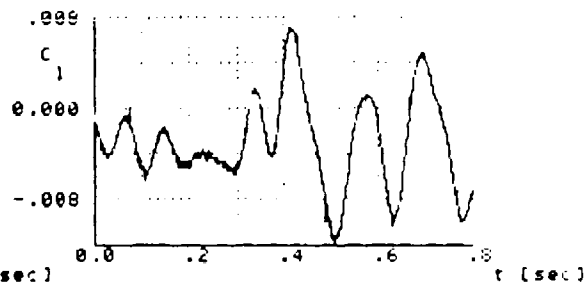
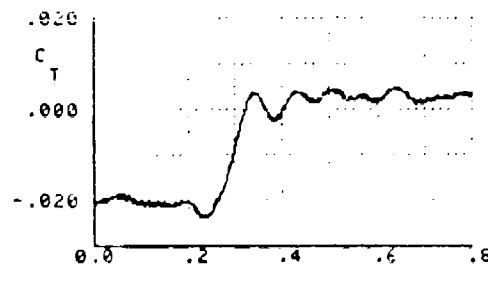
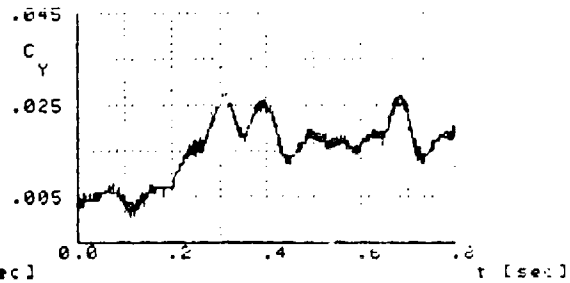
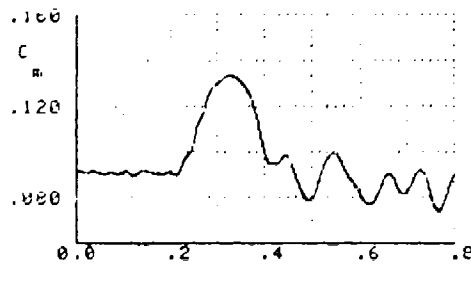
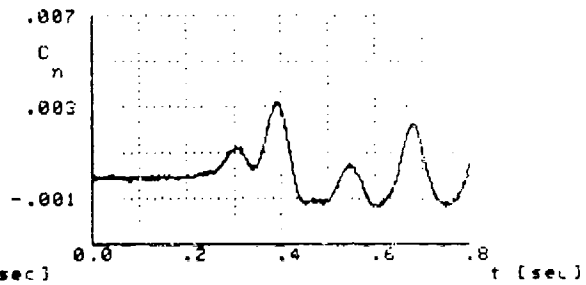
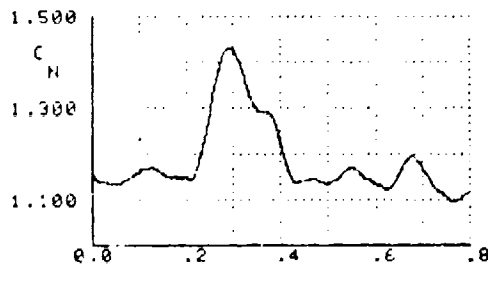
RUN = 3025
ALPHA₀ = 22 deg
DALPHA₀ = 24 deg
T/2 = 167 msec

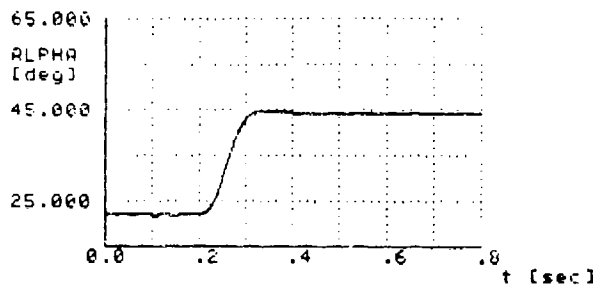




HALF (1-COS) INPUT NOSE UP

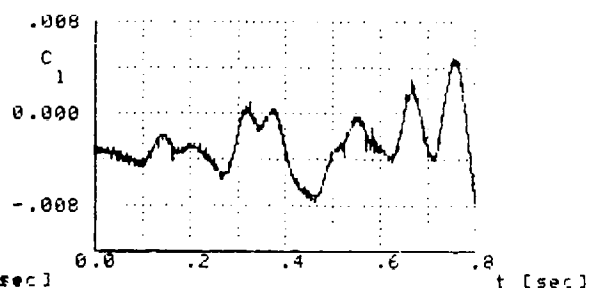
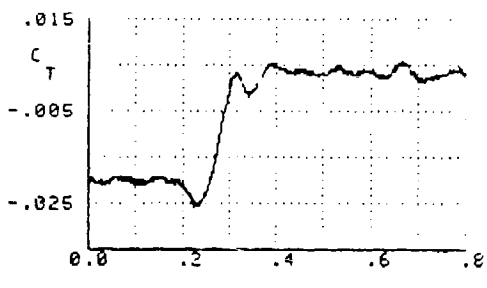
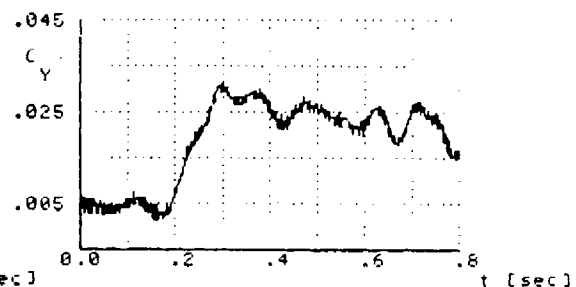
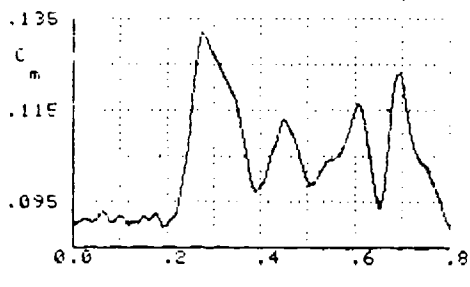
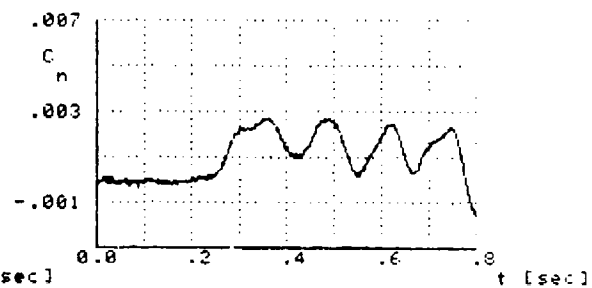
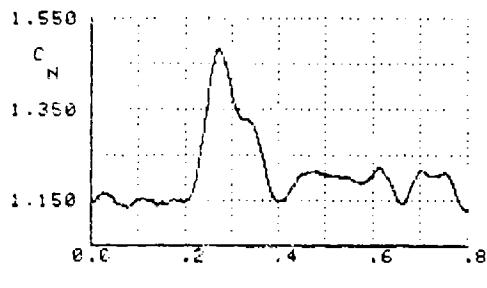
RUN = 3026
ALPHA₀ = 22 deg
DALPHA₀ = 24 deg
T/2 = 125 msec

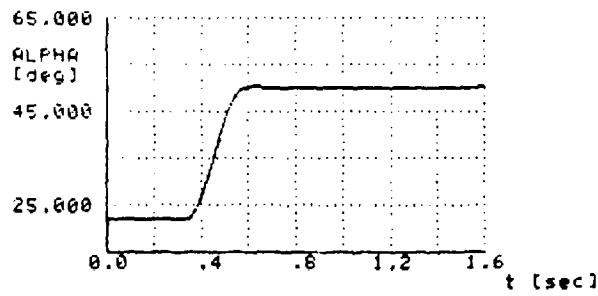




HALF (1-COS) INPUT NOSE UP

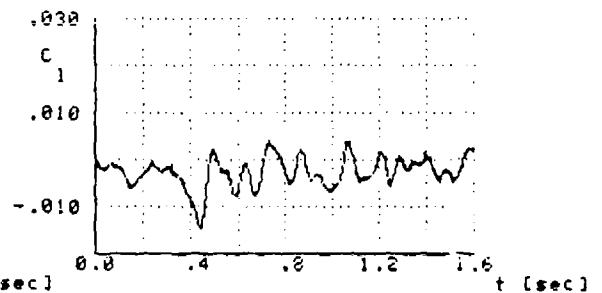
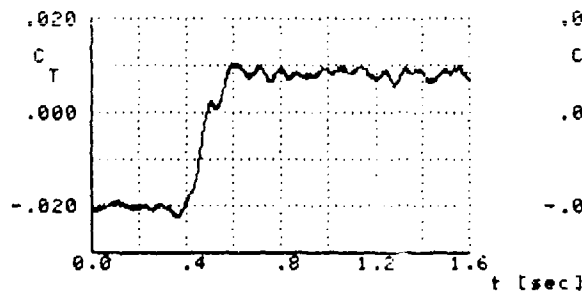
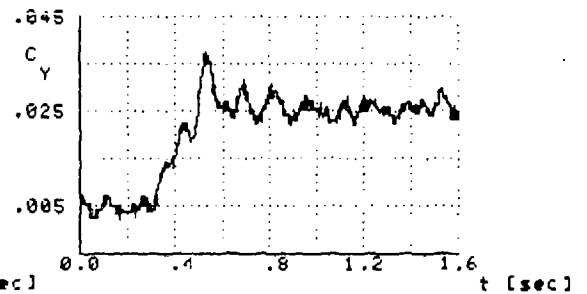
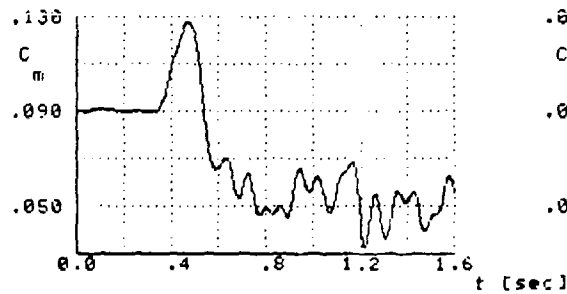
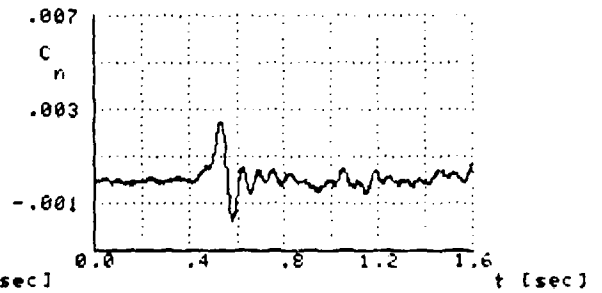
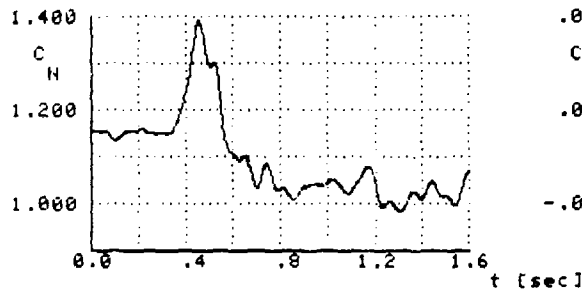
RUN = 3027
 α_{in} = 22 deg
 $\Delta \alpha_{in}$ = 24 deg
 $T/2$ = 100 msec

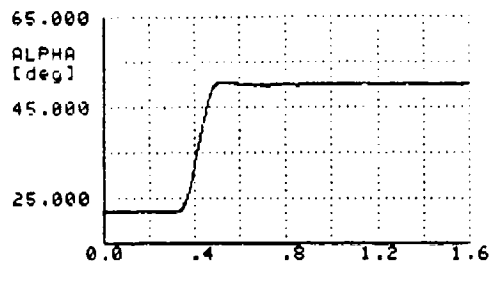




HALF (1-COS) INPUT NOSE UP

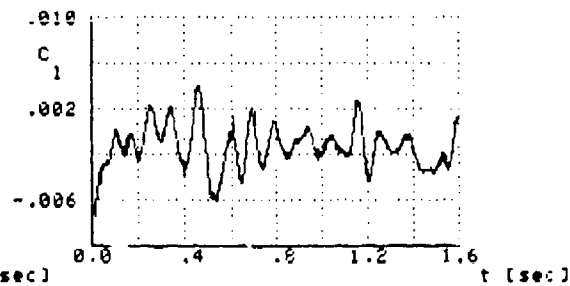
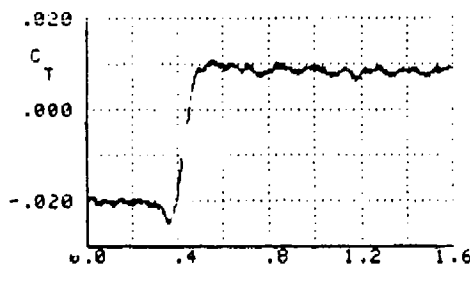
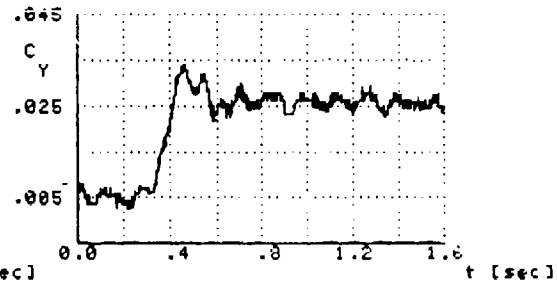
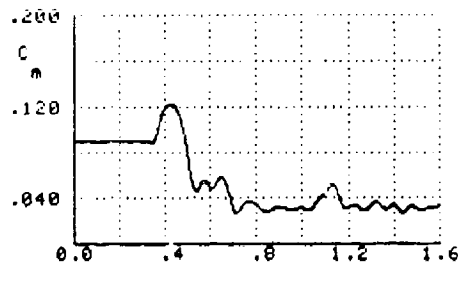
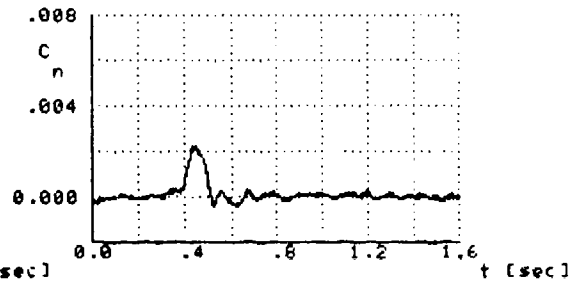
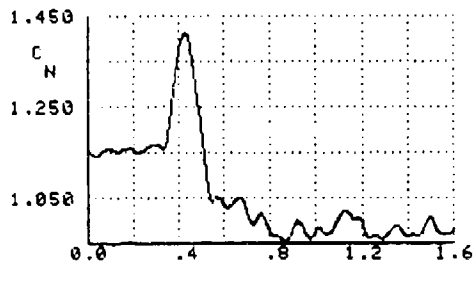
RUN = 3028
 ALPHA_a = 22 deg
 DALPHA_a = 32 deg
 T/2 = 250 msec

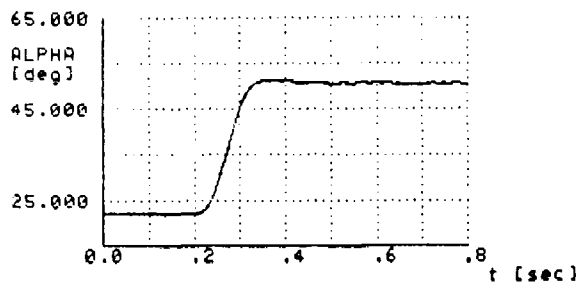




HALF (1-COS) INPUT NOSE UP

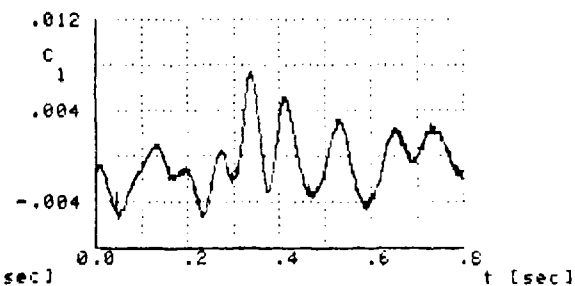
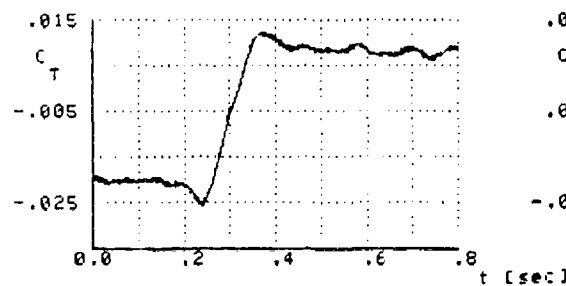
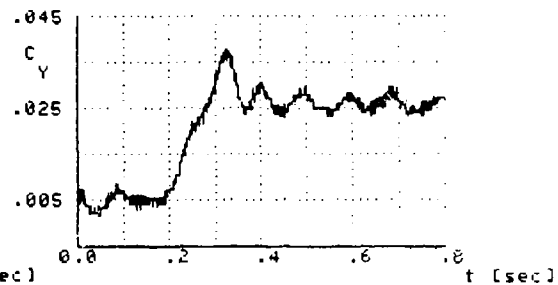
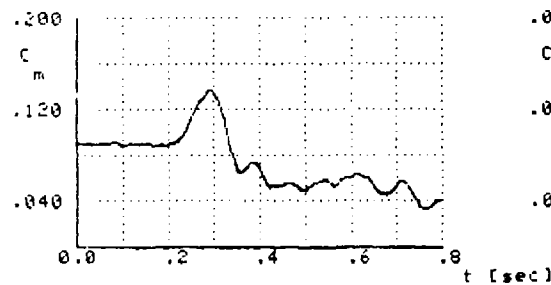
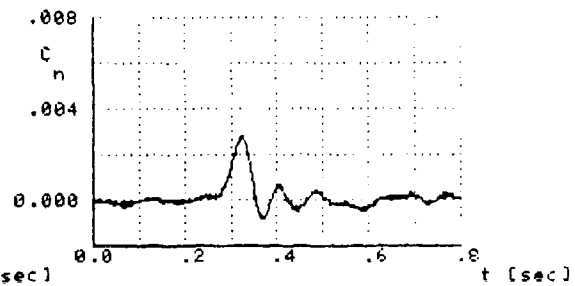
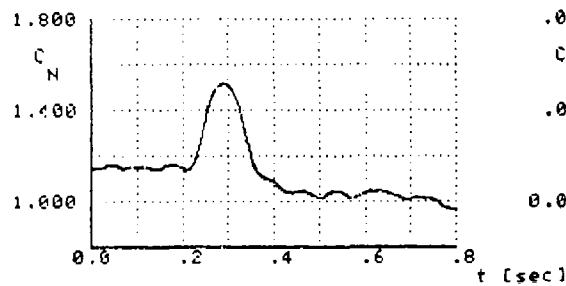
RUN = 3029
ALPHA_A = 22 deg
DALPHA_A = 32 deg
T/2 = 167 msec

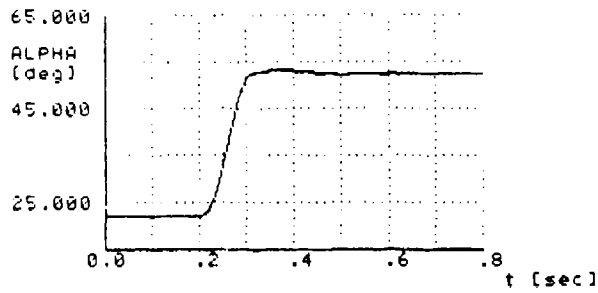




HALF (1-COS) INPUT NOSE UP

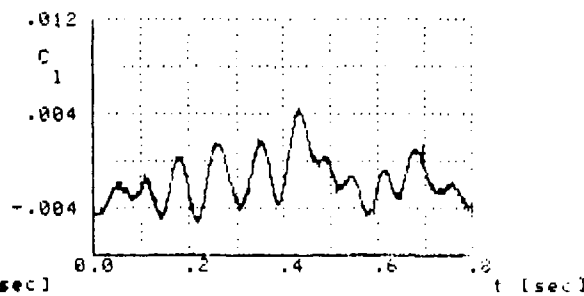
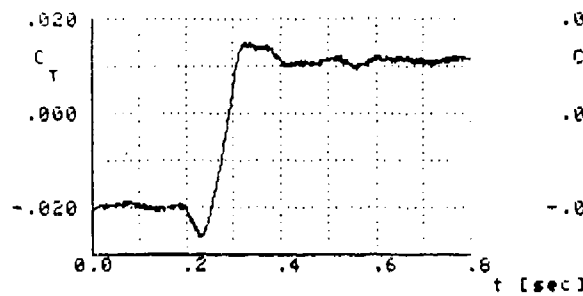
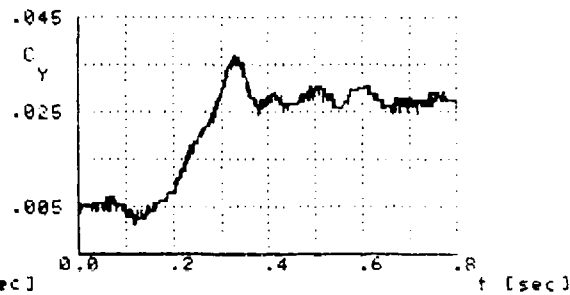
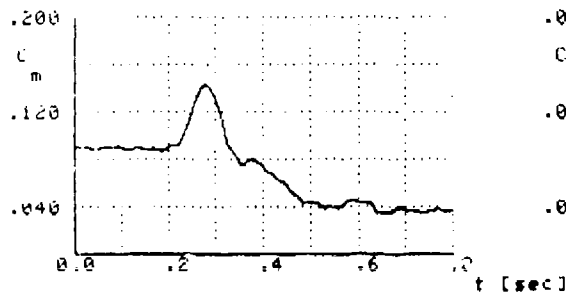
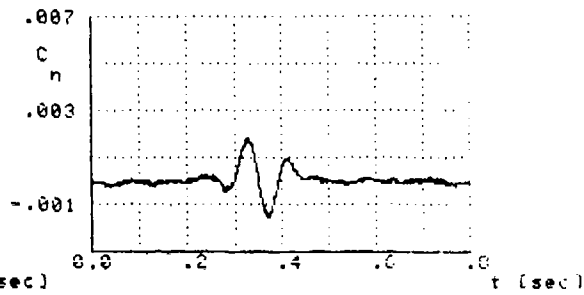
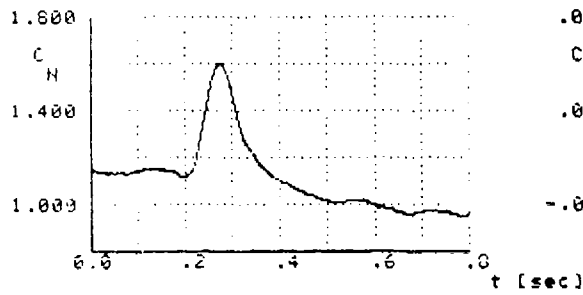
RUN = 3030
ALPHA_a = 22 deg
DALPHA_a = 32 deg
T/2 = 125 msec

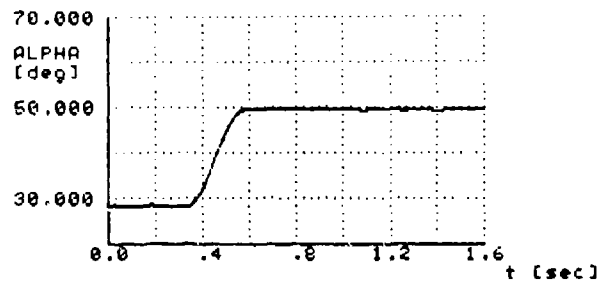




HALF (1-COS) INPUT NOSE UP

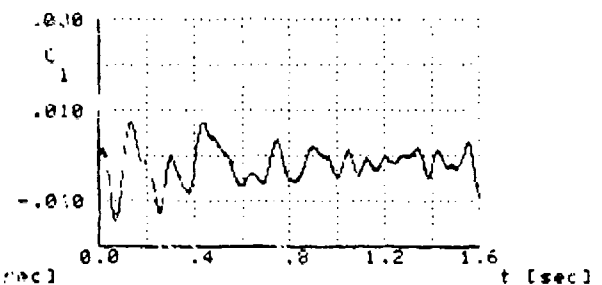
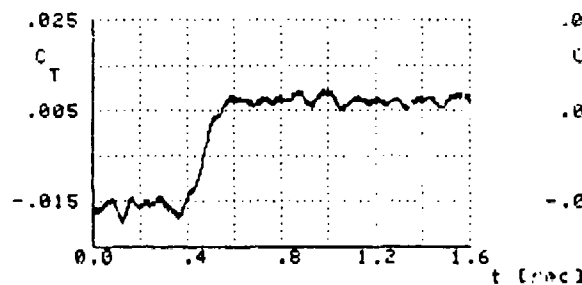
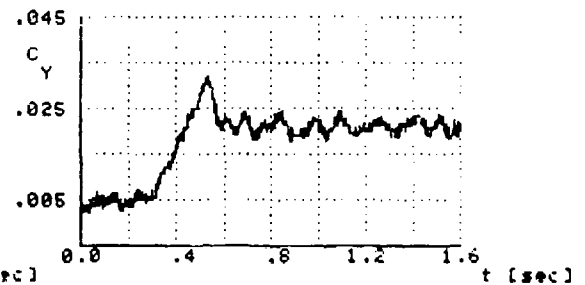
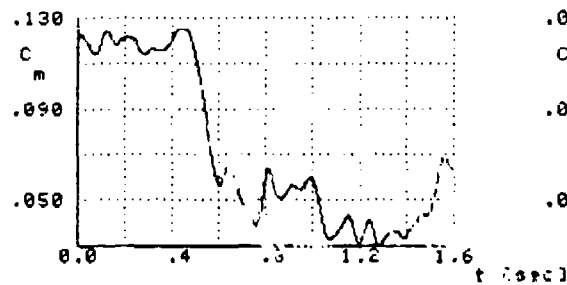
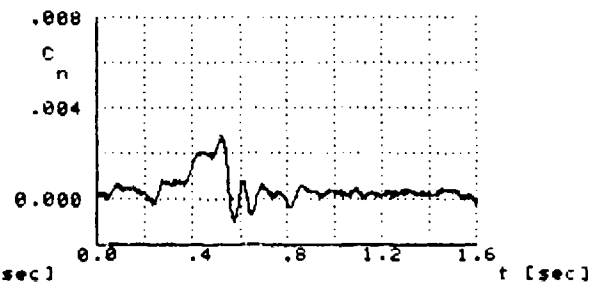
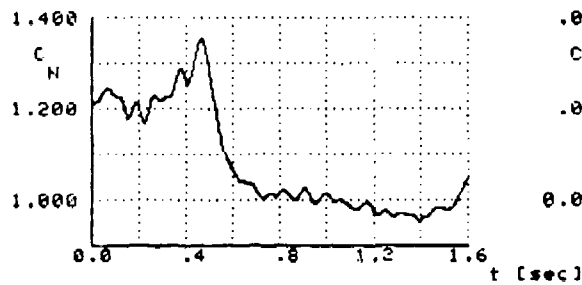
RUN = 3031
ALPHA_a = 22 deg
DALPHA_a = 32 deg
T/2 = 100 msec

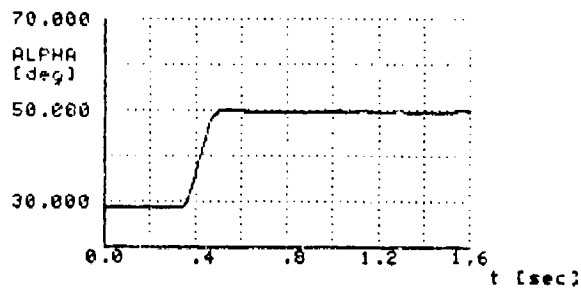




HALF (1-COS) INPUT NOSE UP

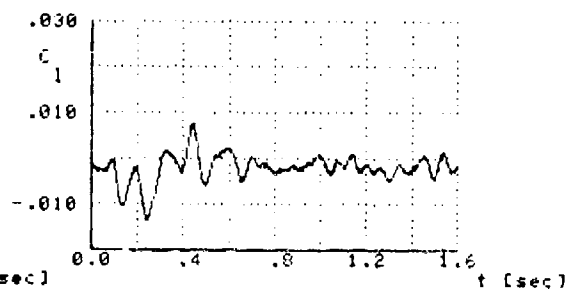
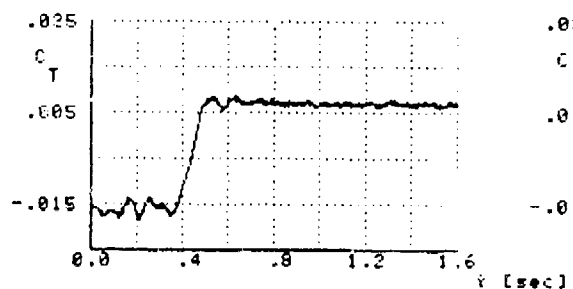
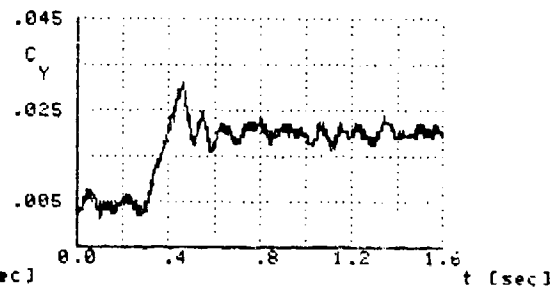
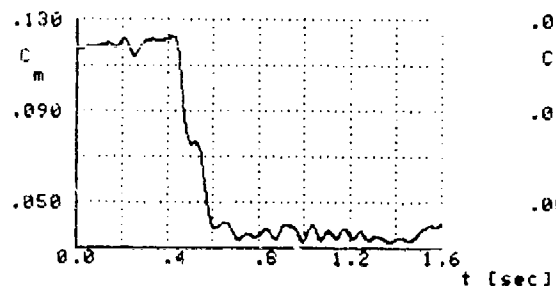
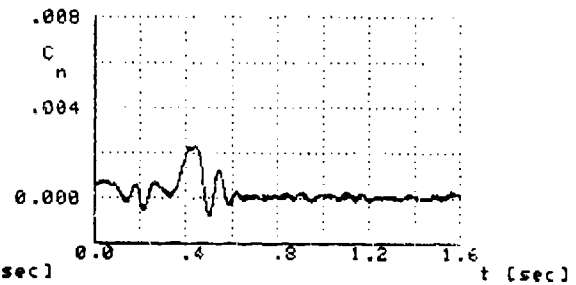
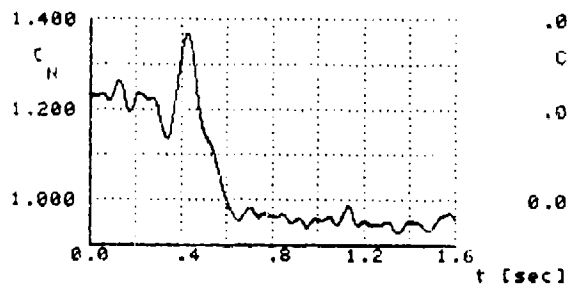
RUN = 3032
 ALPHA₀ = 30 deg
 ΔALPHA₀ = 24 deg
 T/2 = 250 msec

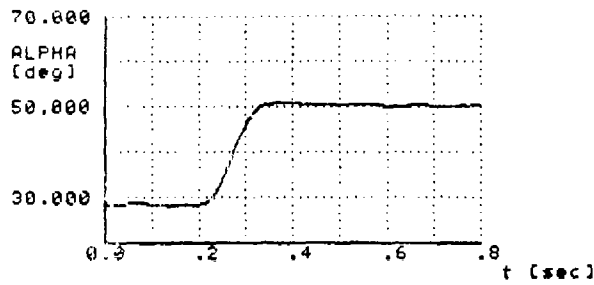




HALF (1-COS) INPUT NOSE UP

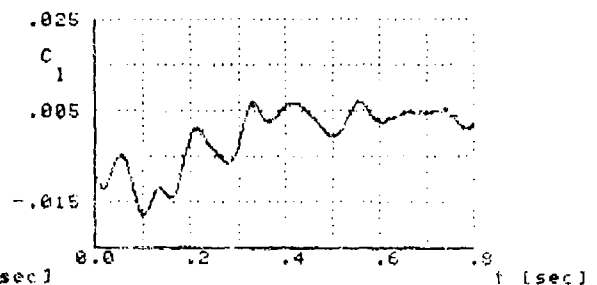
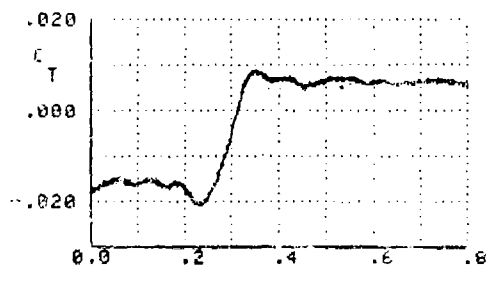
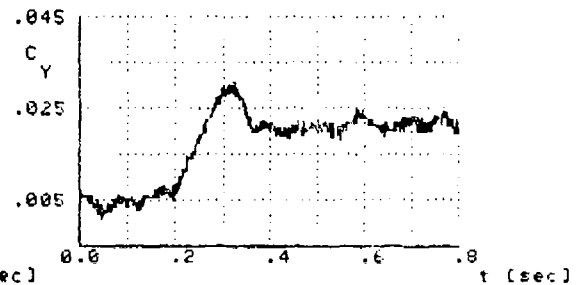
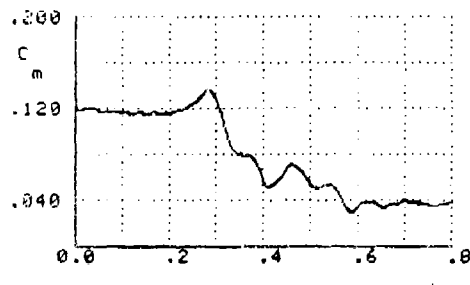
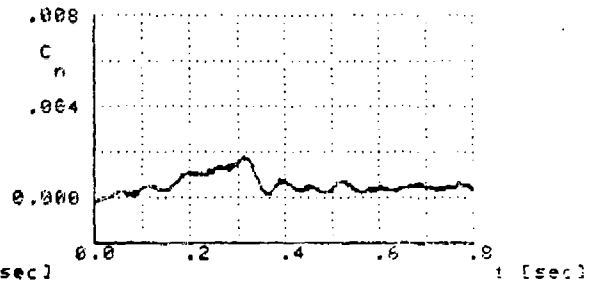
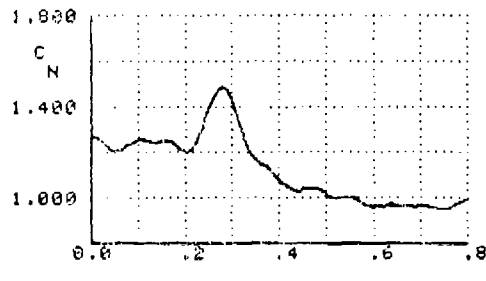
RUN = 3033
ALPHA₀ = 30 deg
DALPHA₀ = 24 deg
T/2 = 167 msec

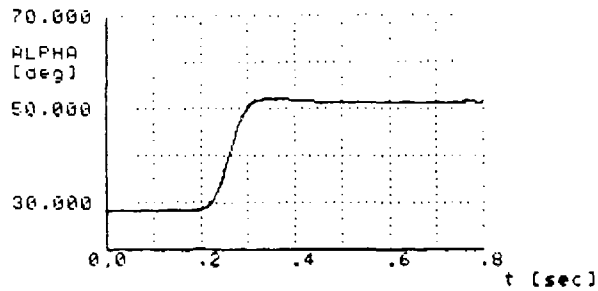




HALF (1-COS) INPUT
NOSE UP

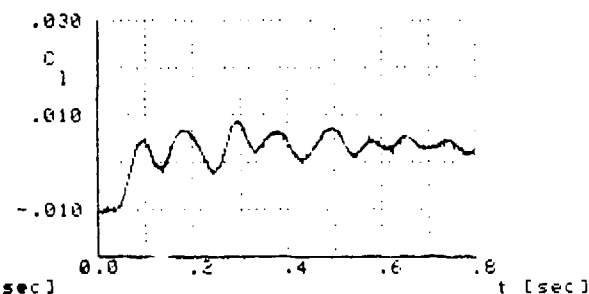
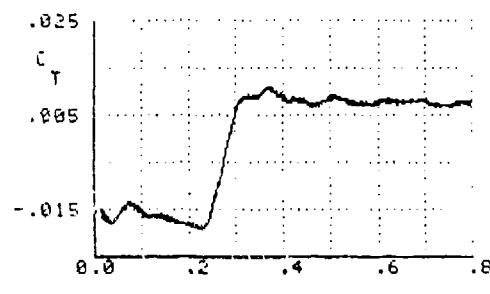
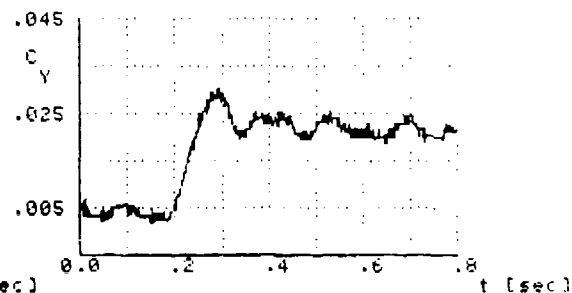
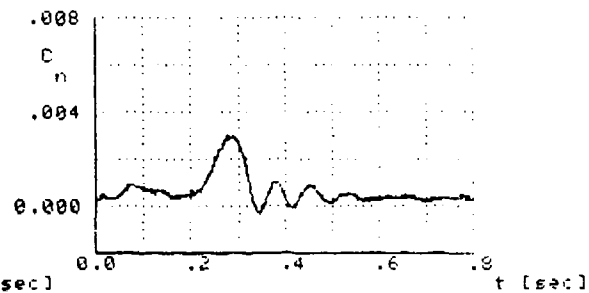
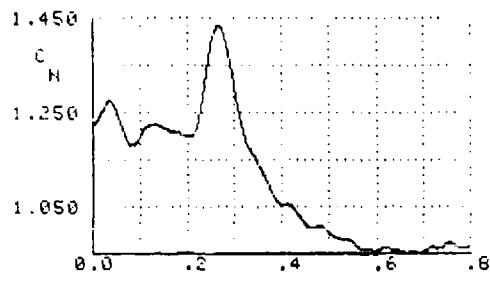
RUN = 3034
 α_a = 30 deg
 $\Delta \alpha_a$ = 24 deg
 $T/2$ = 125 msec

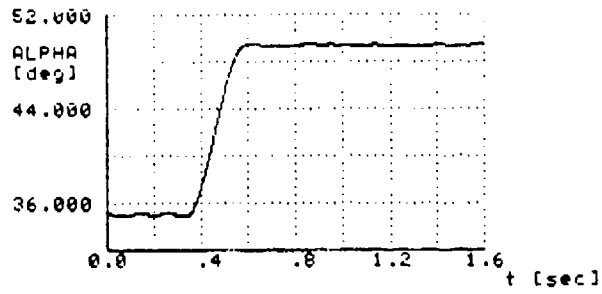




HALF (1-COS) INPUT NOSE UP

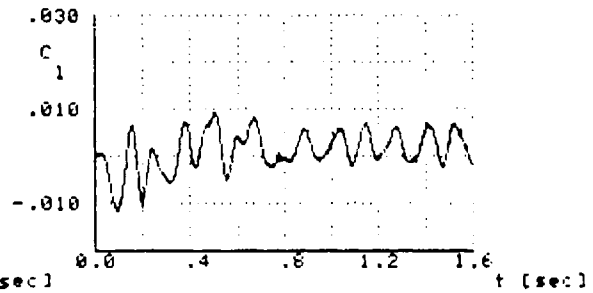
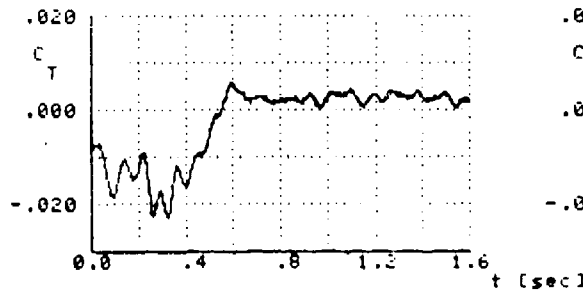
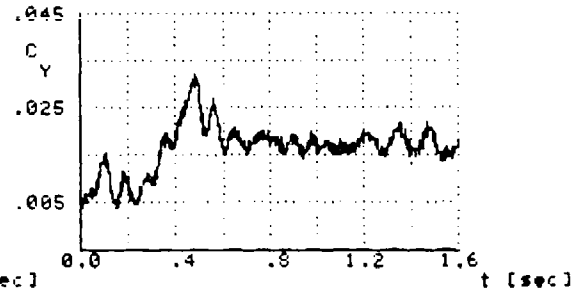
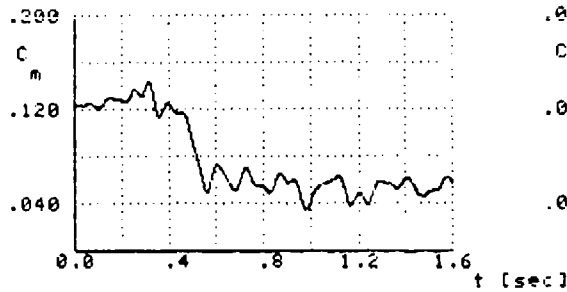
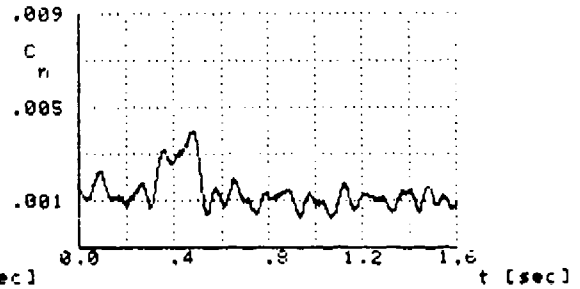
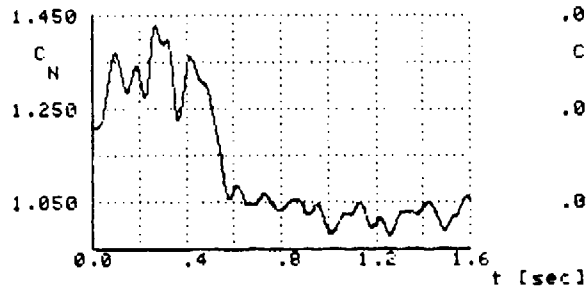
RUN = 3035
ALPHA_a = 30 deg
DALPHA_a = 24 deg
T/2 = 100 msec

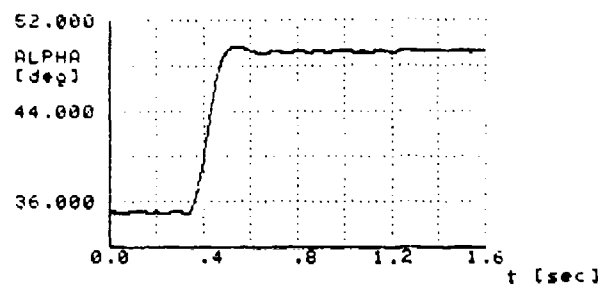




HALF (1-COS) INPUT NOSE UP

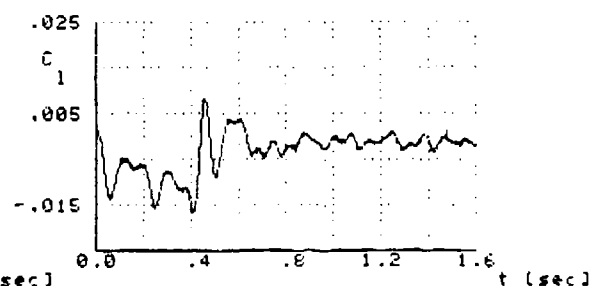
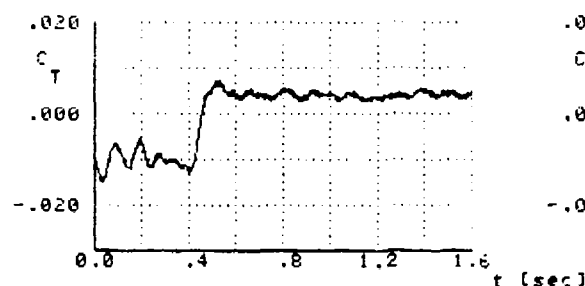
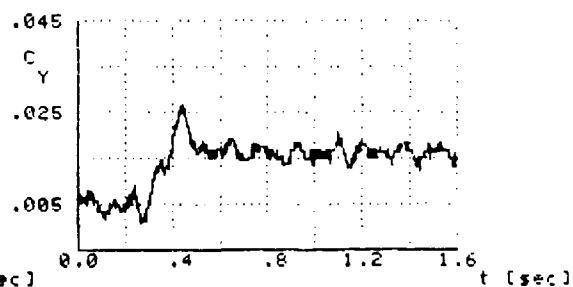
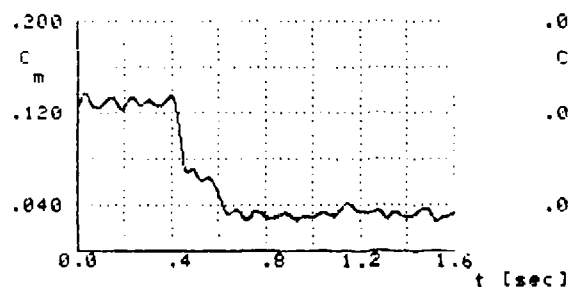
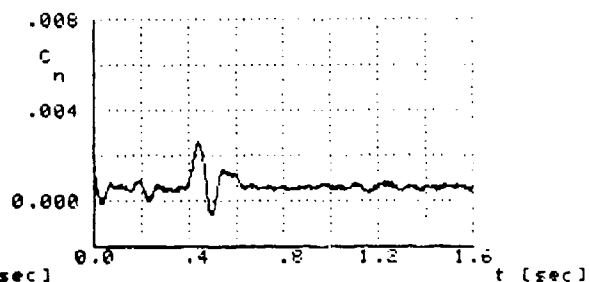
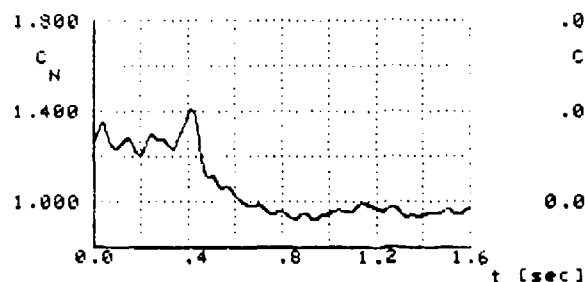
RUN = 3036
 α_a = 38 deg
 $\Delta\alpha_a$ = 16 deg
 $T/2$ = 250 msec

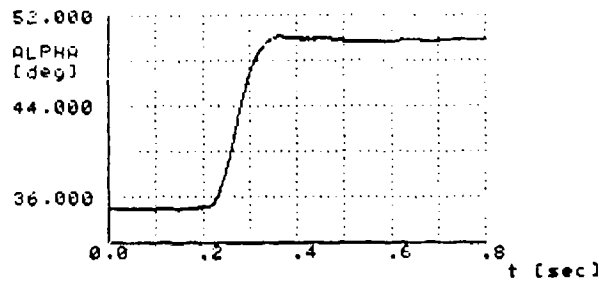




HALF (1-COS) INPUT NOSE UP

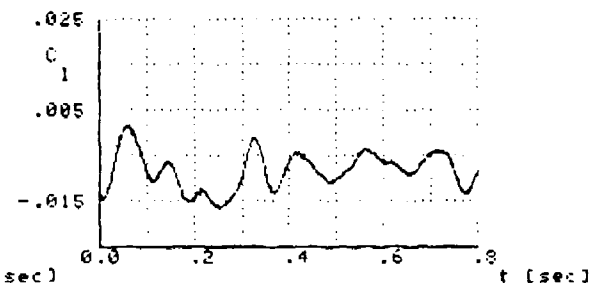
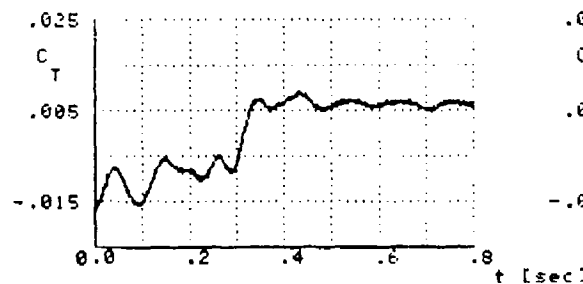
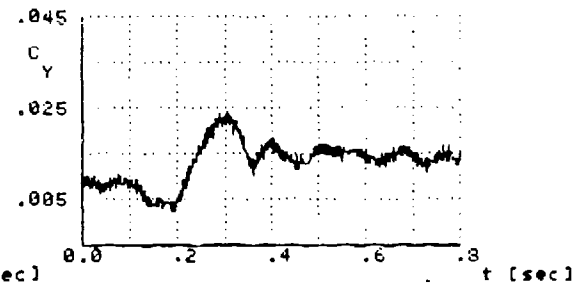
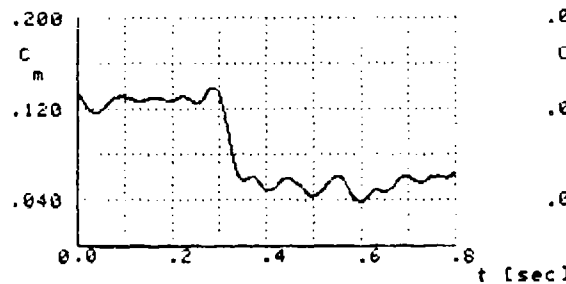
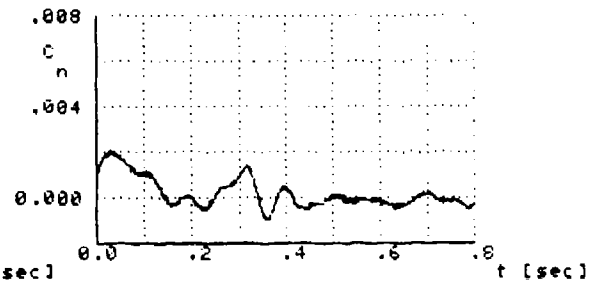
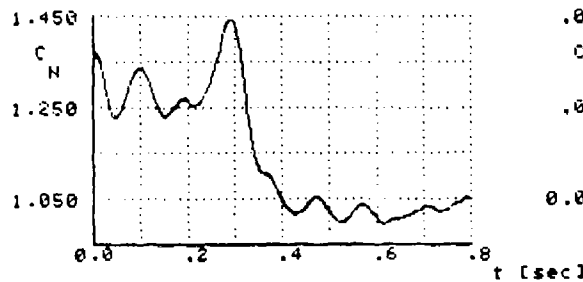
RUN = 3037
 $\text{ALPHA}_a = 38 \text{ deg}$
 $\text{DALPHA}_a = 16 \text{ deg}$
 $T/2 = 167 \text{ msec}$

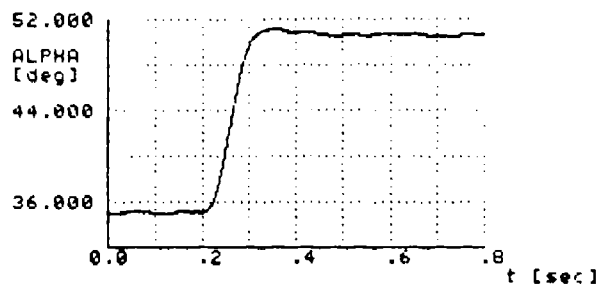




HALF (1-COS) INPUT
NOSE UP

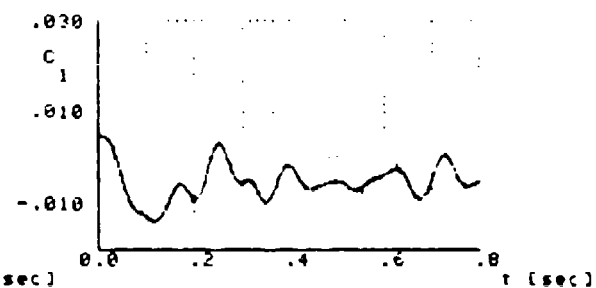
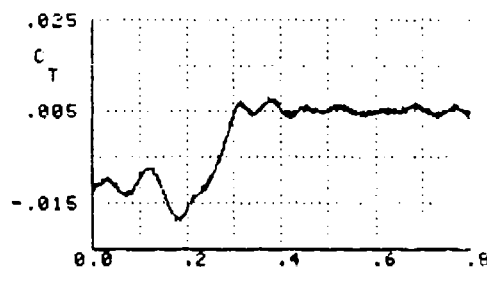
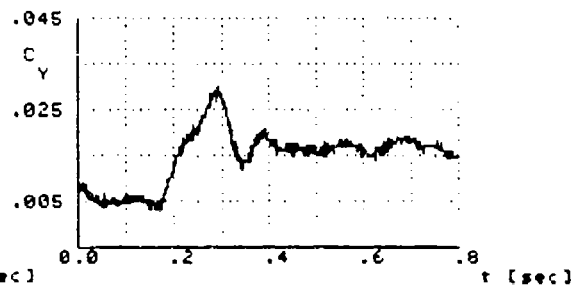
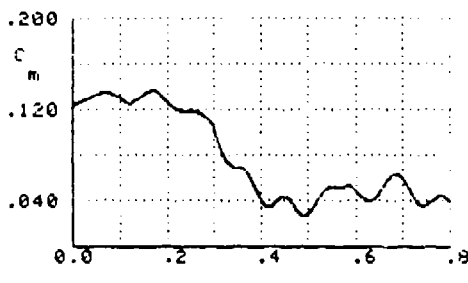
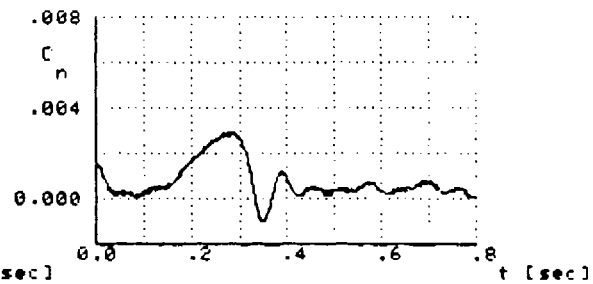
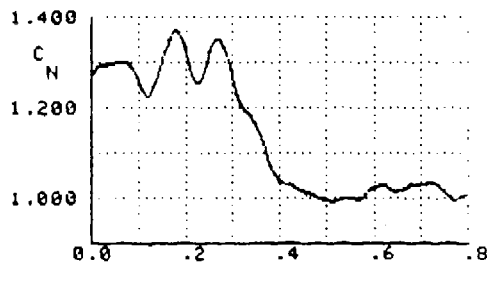
RUN = 3038
ALPHA = 36 deg
DALPHA = 16 deg
T/2 = 125 msec

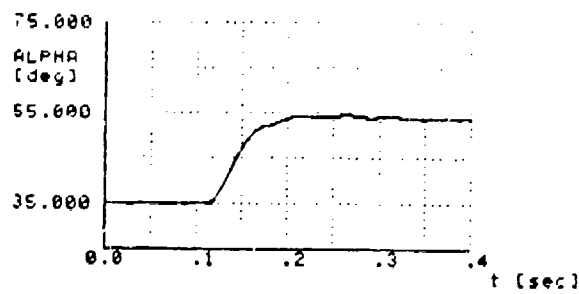




HALF (1-COS) INPUT NOSE UP

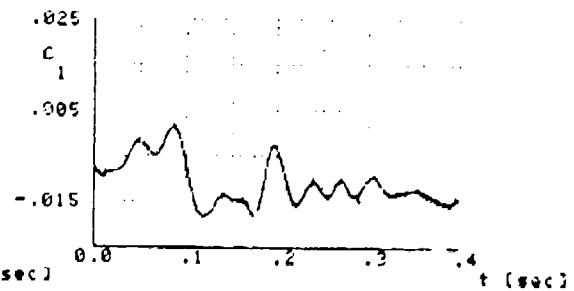
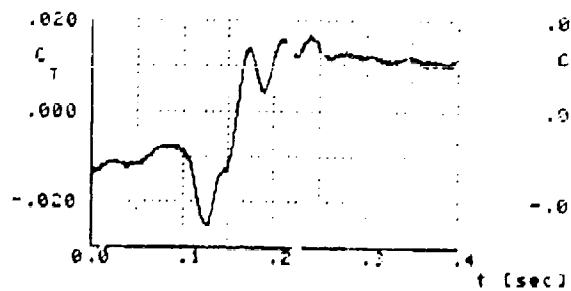
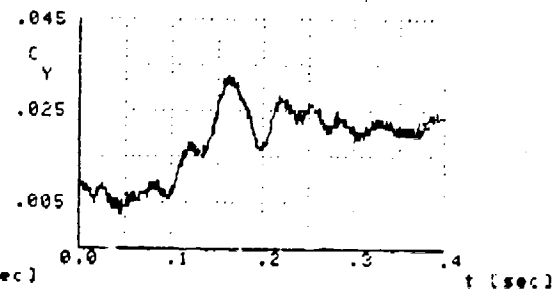
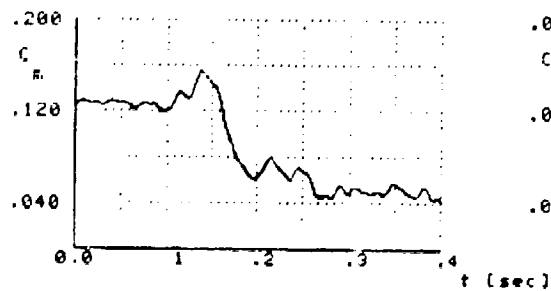
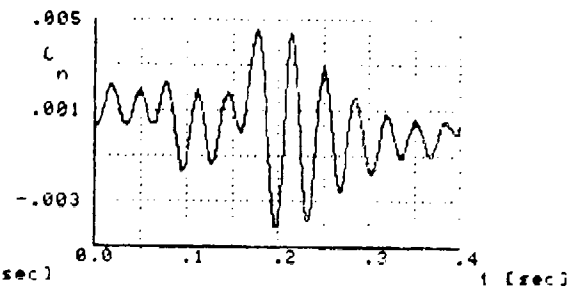
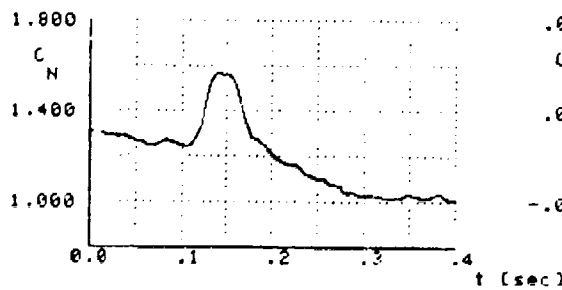
RUN = 3039
ALPHA_a = 38 deg
DALPHA_a = 16 deg
T/2 = 100 msec

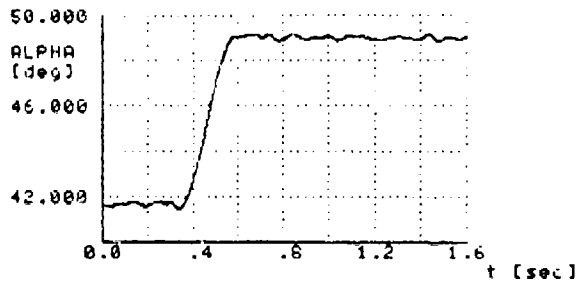




HALF (1-COS) INPUT NOSE UP

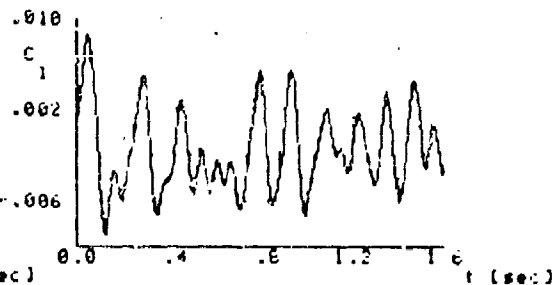
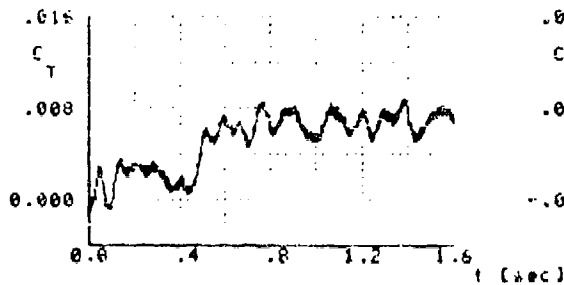
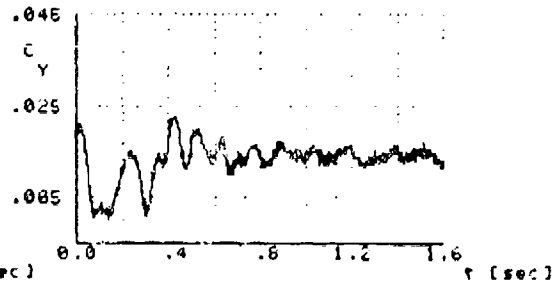
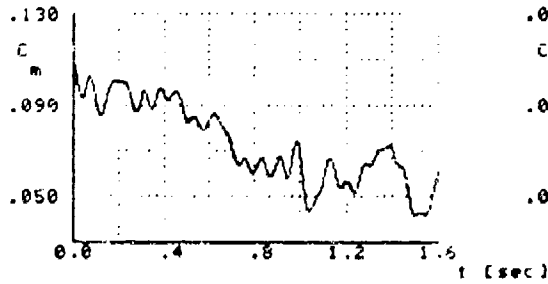
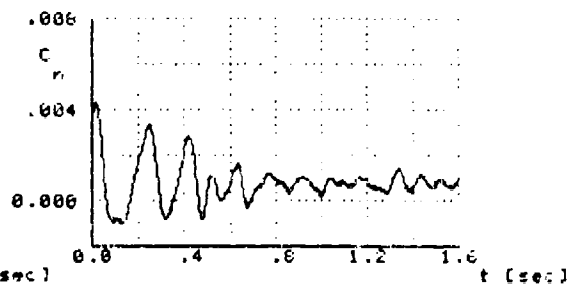
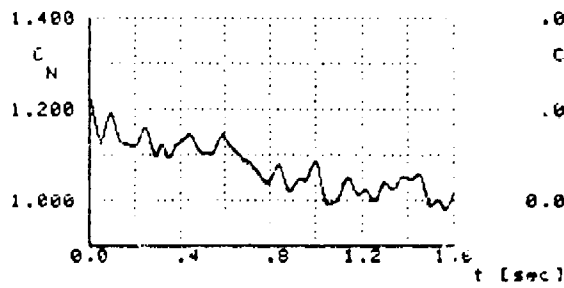
RUN = 3848
ALPHA = 38 deg
DALPHA = 16 deg
T/2 = 63 msec

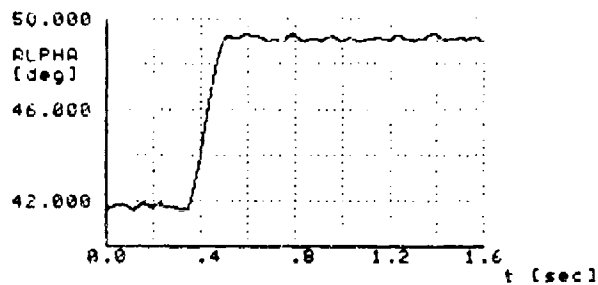




HALF (1-COS) INPUT NOSE UP

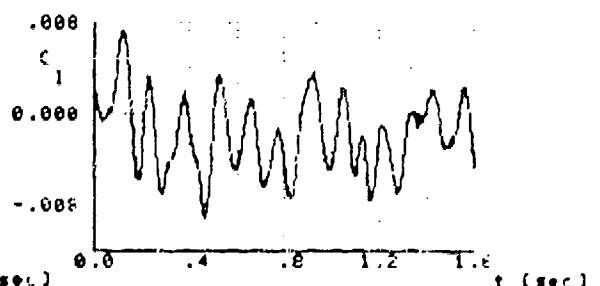
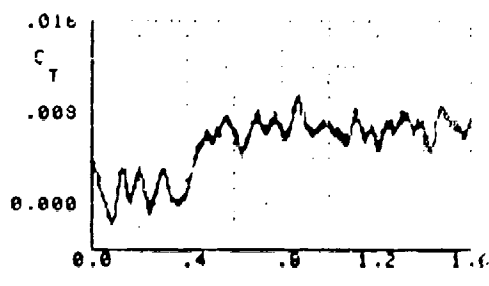
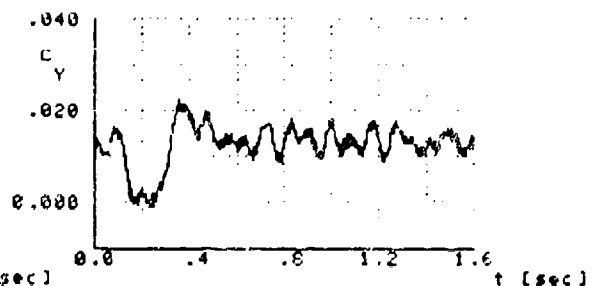
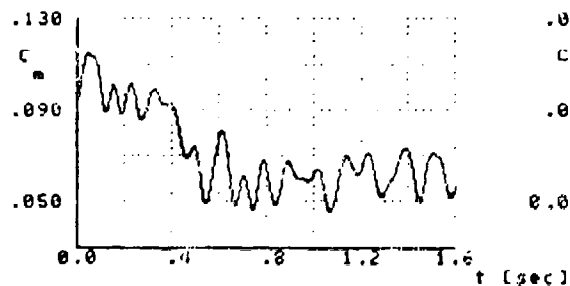
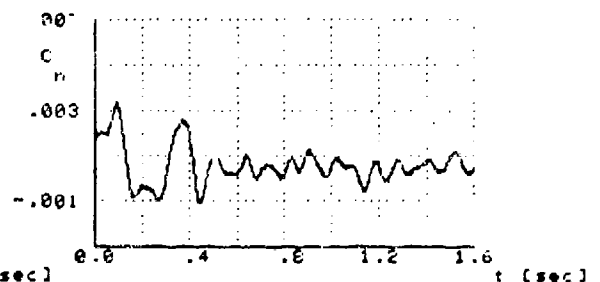
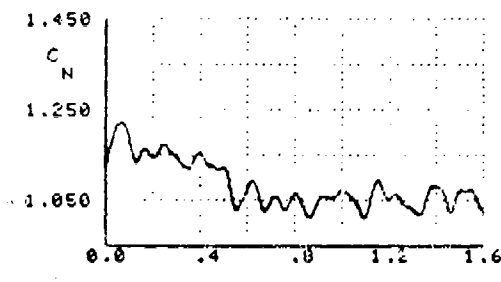
RUN = 3041
ALPHA₀ = 46 deg
ΔALPHA₀ = 8 deg
T/2 = 250 msec

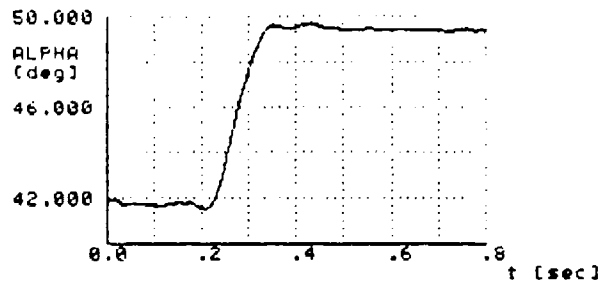




HALF (1-COS) INPUT
NOSE UP

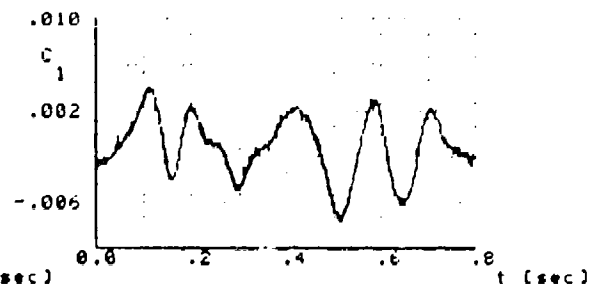
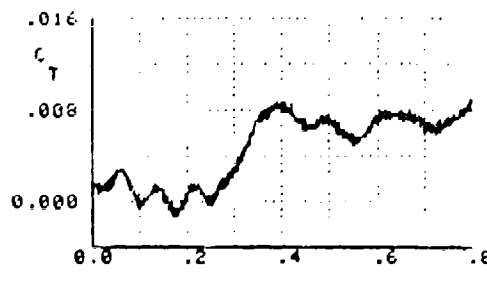
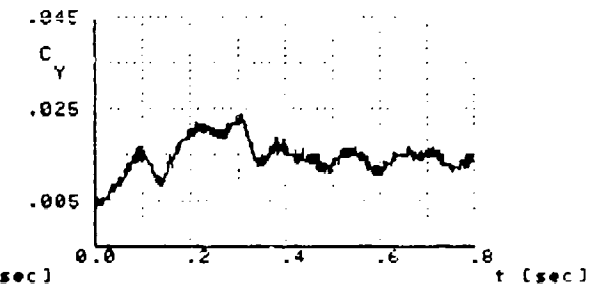
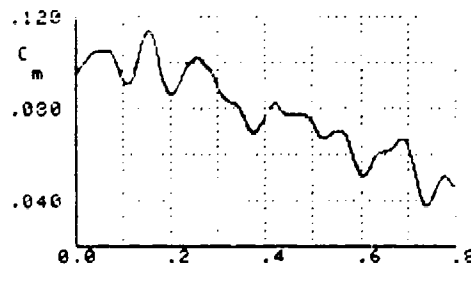
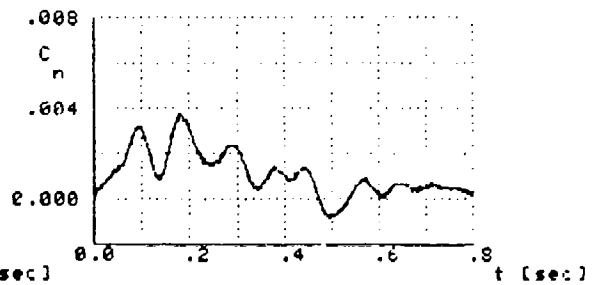
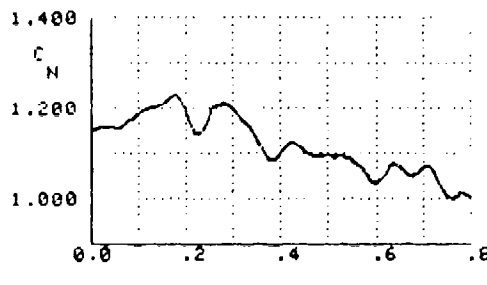
RUN = 3042
ALPHA = 46 deg
DALPHA = 8 deg
T/2 = 167 msec

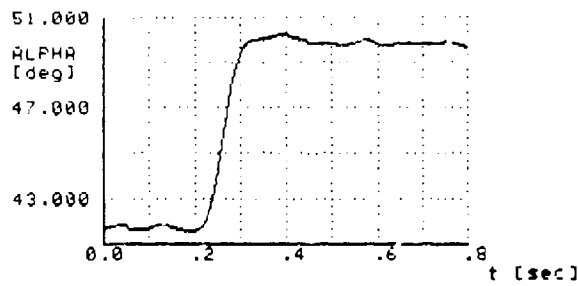




HALF (1-COS) INPUT NOSE UP

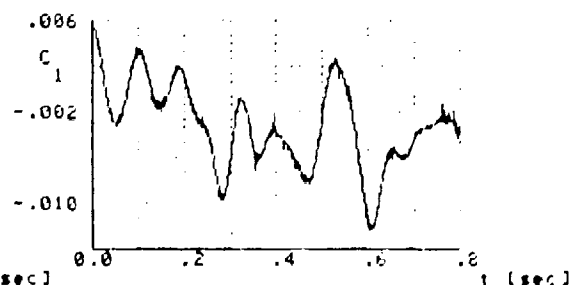
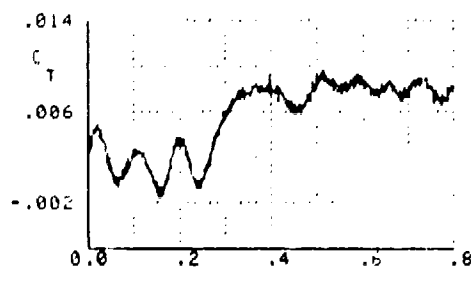
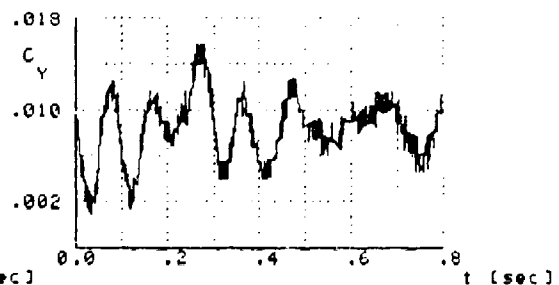
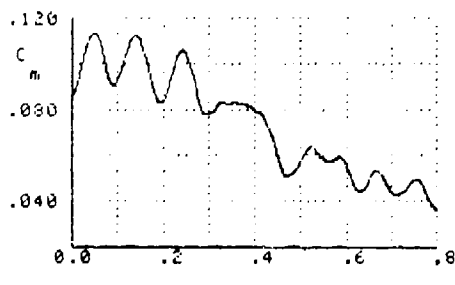
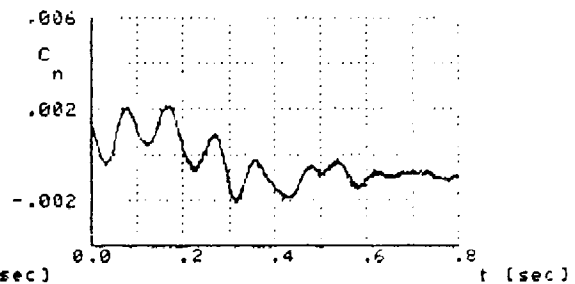
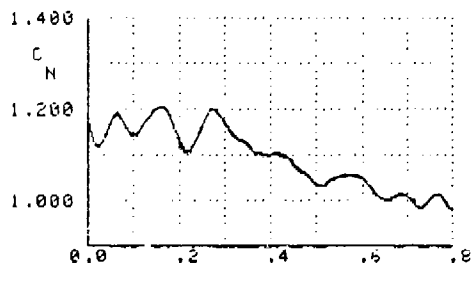
RUN = 3043
 ALPHA₀ = 46 deg
 ΔALPHA₀ = 8 deg
 T/2 = 125 msec

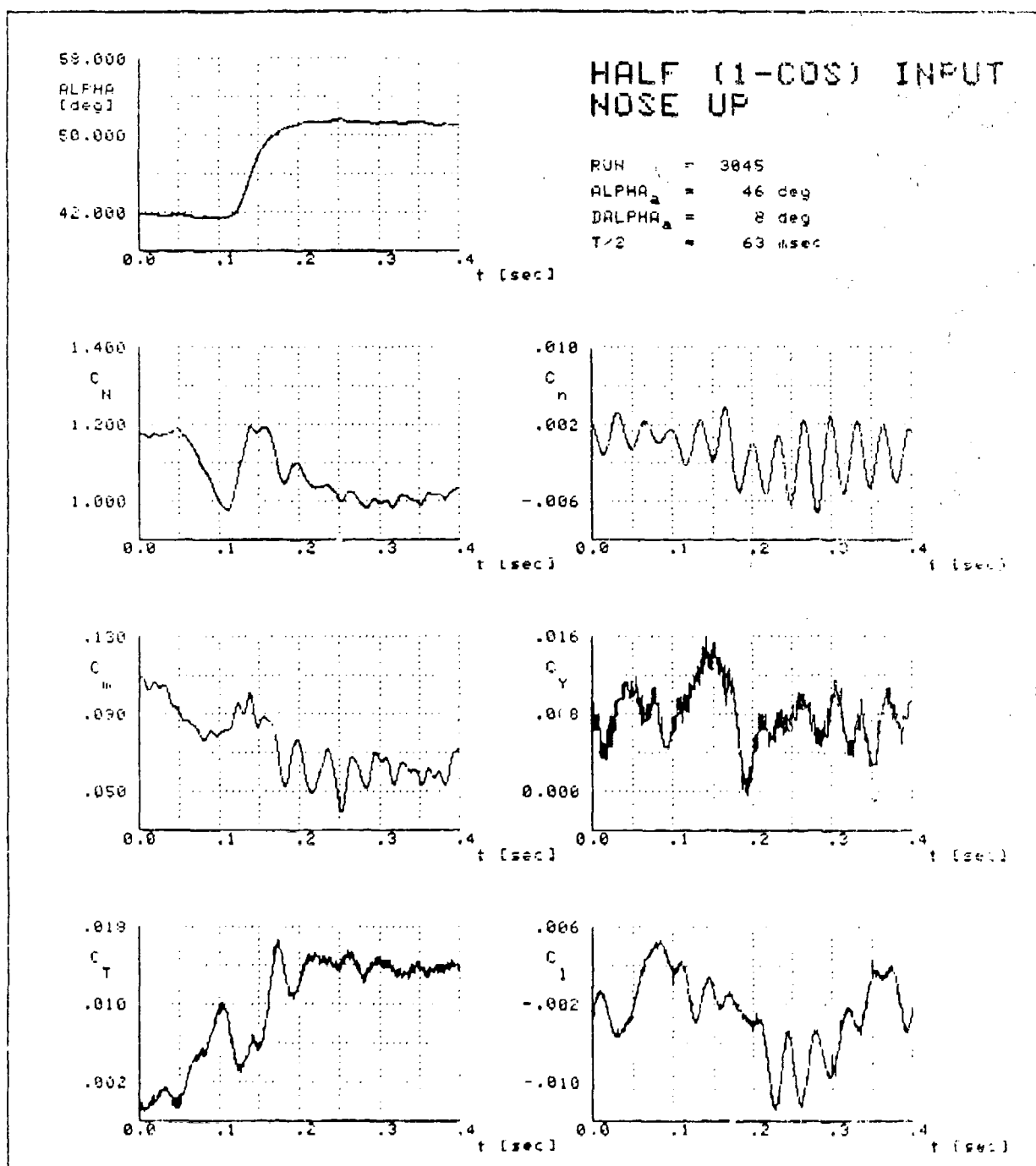


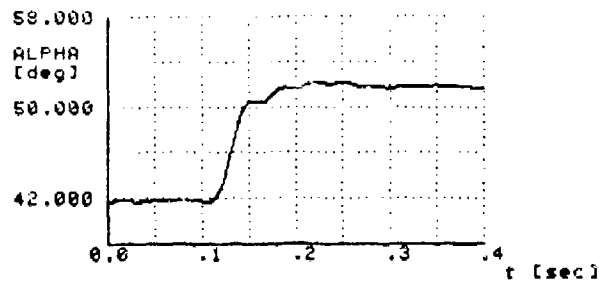


HALF (1-COS) INPUT NOSE UP

RUN = 3044
 α_a = 46 deg
 $\Delta\alpha_a$ = 8 deg
 $T/2$ = 100 msec

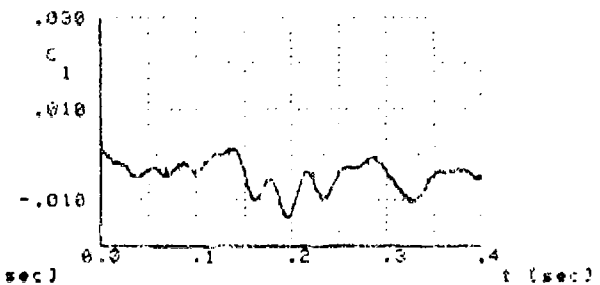
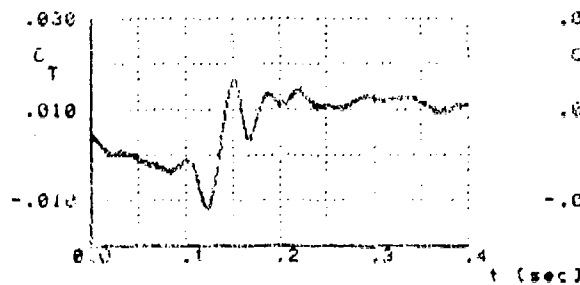
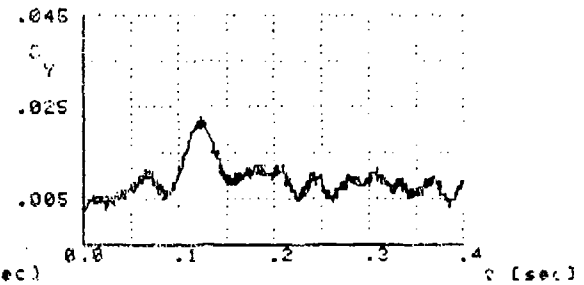
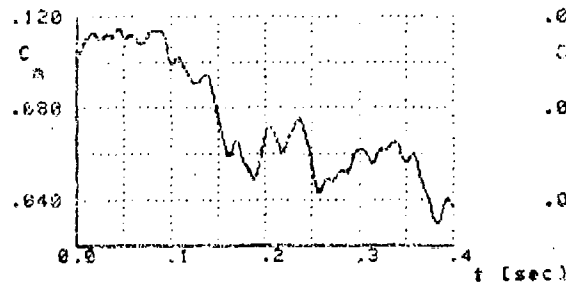
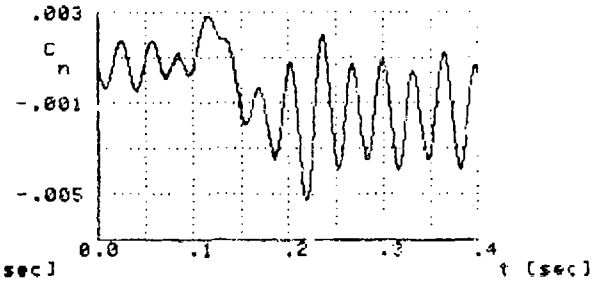
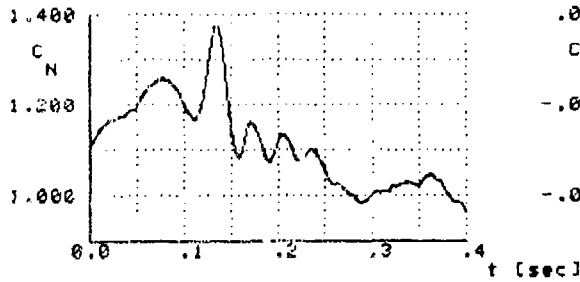


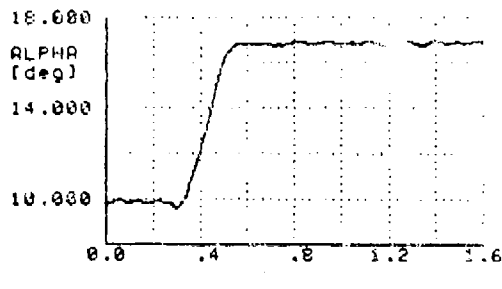




HALF (1-COS) INPUT NOSE UP

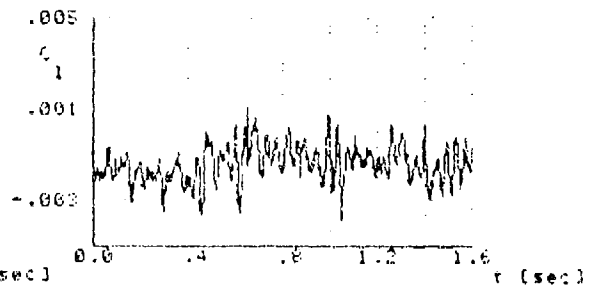
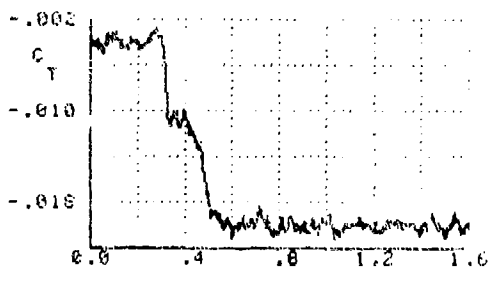
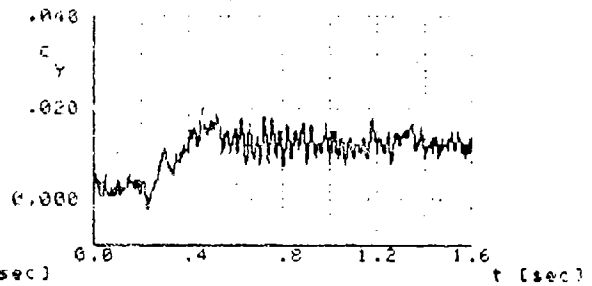
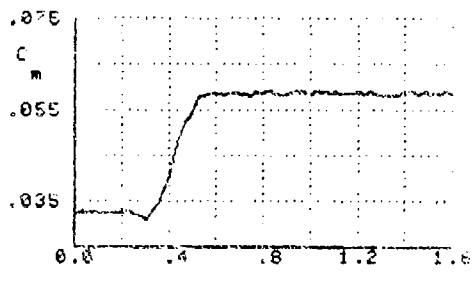
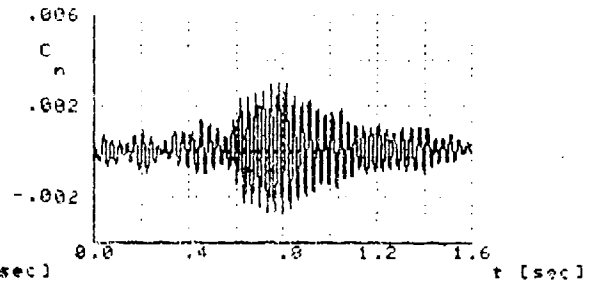
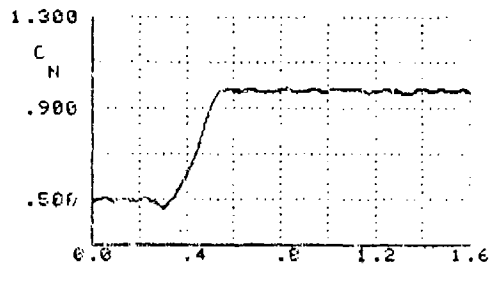
RUN = 3046
ALPHA₀ = 46 deg
ΔALPHA₀ = 8 deg
T/2 = 42 msec

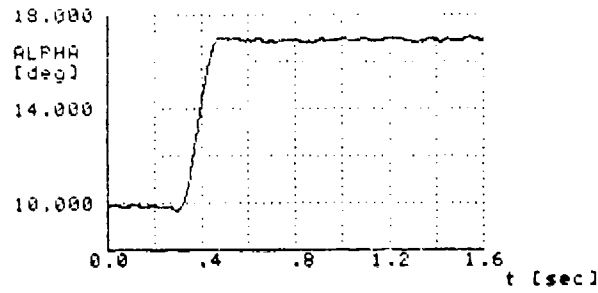




HALF (1-COS) INPUT
NOSE UP

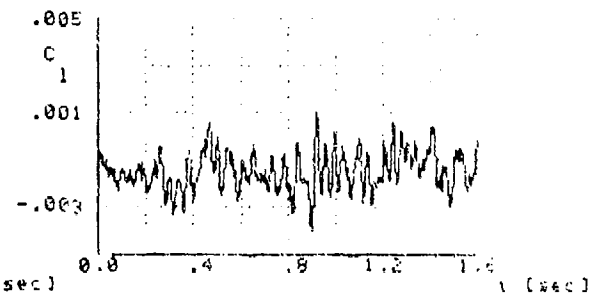
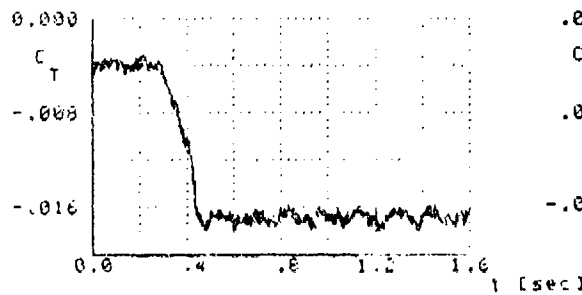
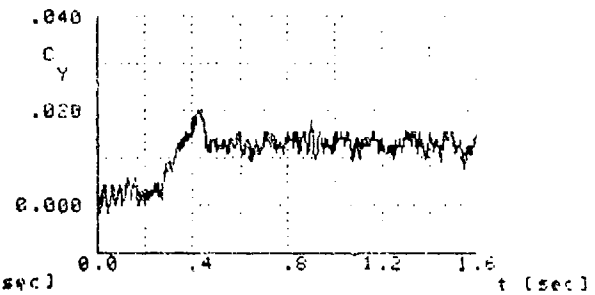
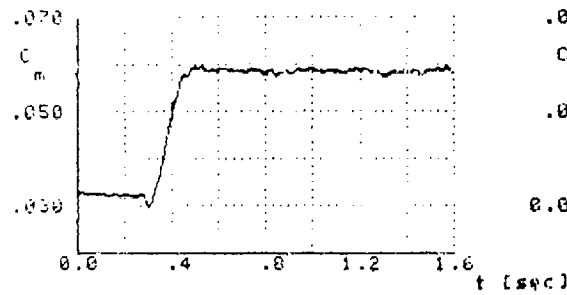
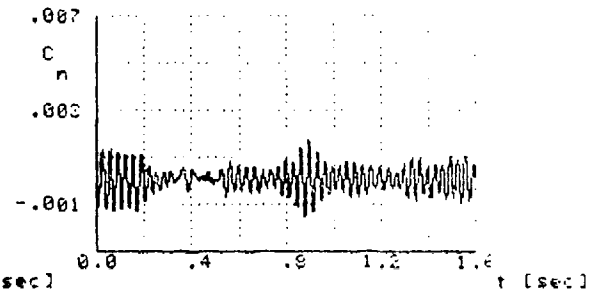
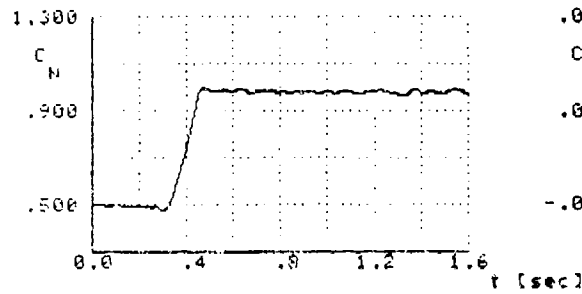
RUN = 3347
ALPHA_a = 8 deg
D_{ALPHA}_a = 8 deg
T/2 = 250 msec

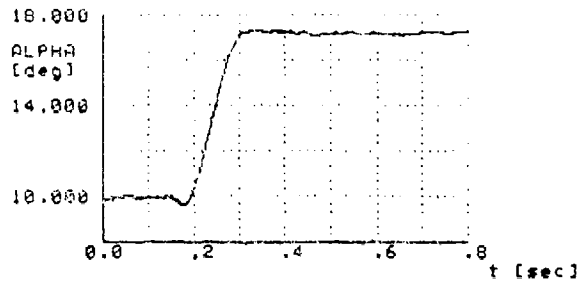




HALF (1-COS) INPUT NOSE UP

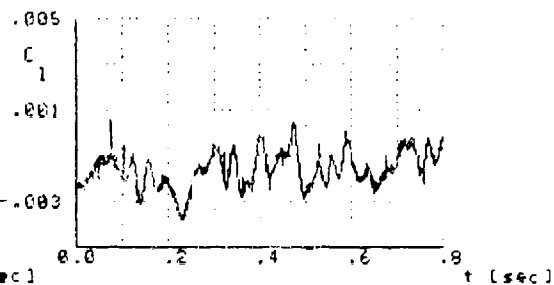
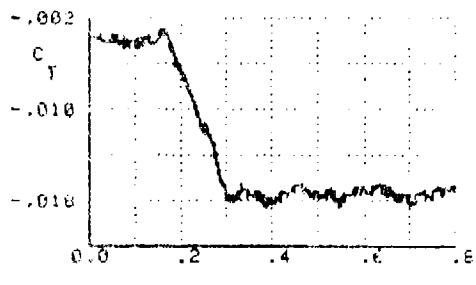
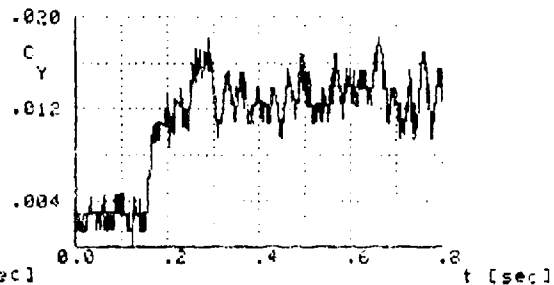
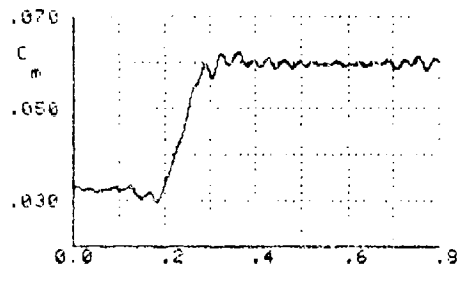
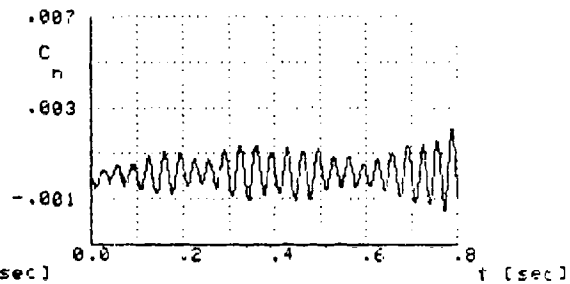
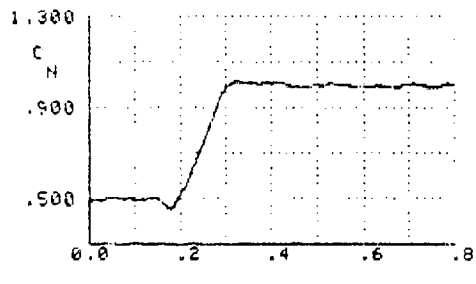
RUN = 3048
ALPHA_a = 8 deg
ΔALPHA_a = 8 deg
T/2 = 167 msec

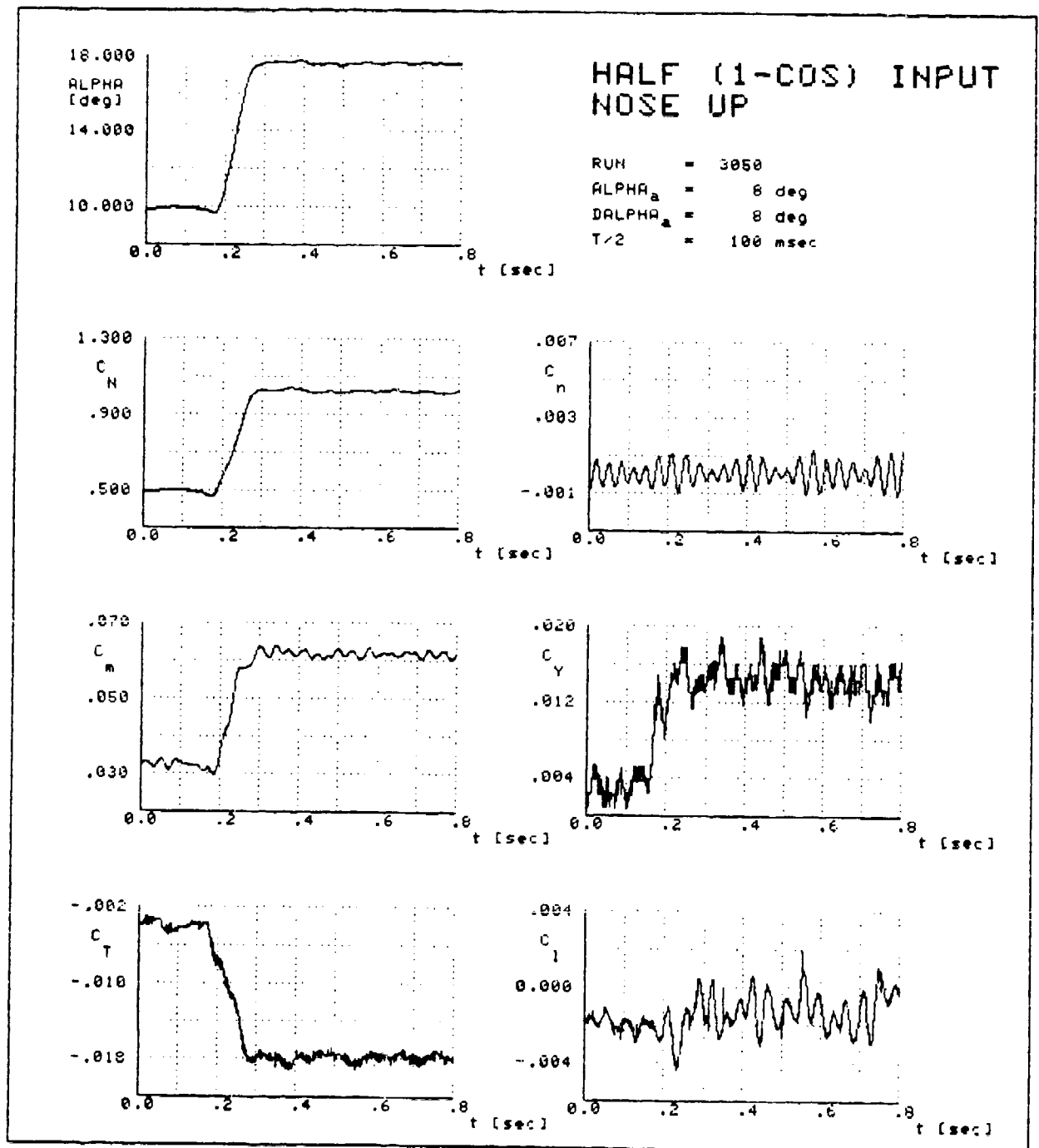


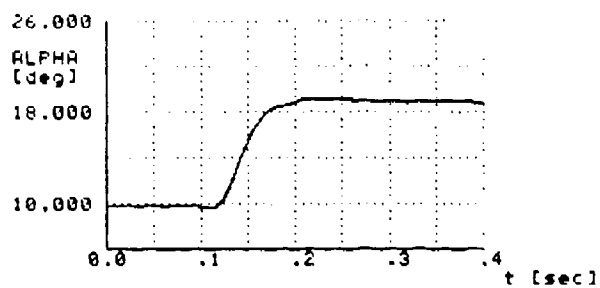


HALF (1-COS) INPUT
NOSE UP

RUN = 3049
ALPHA_a = 8 deg
DALPHA_a = 8 deg
T/2 = 125 msec

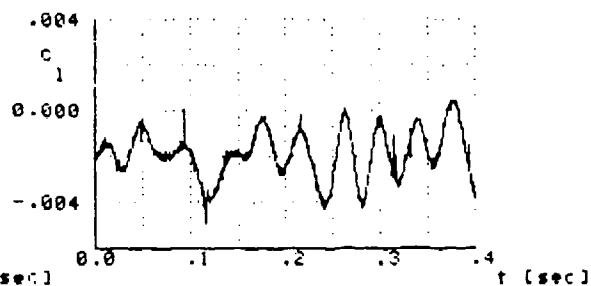
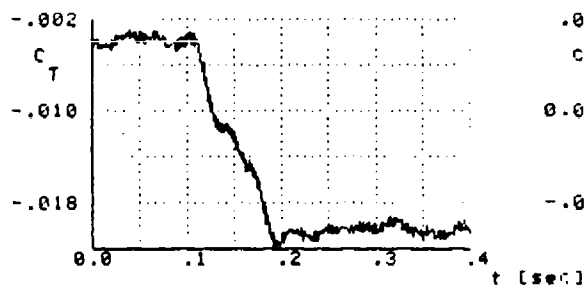
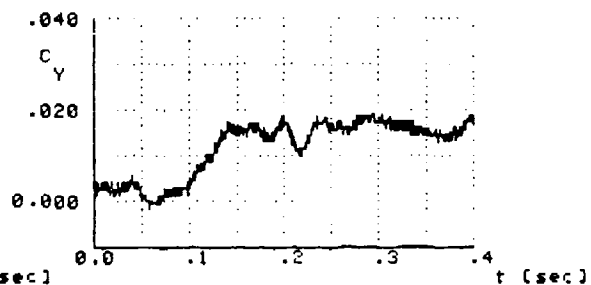
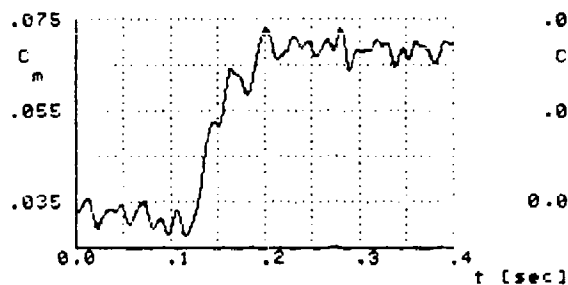
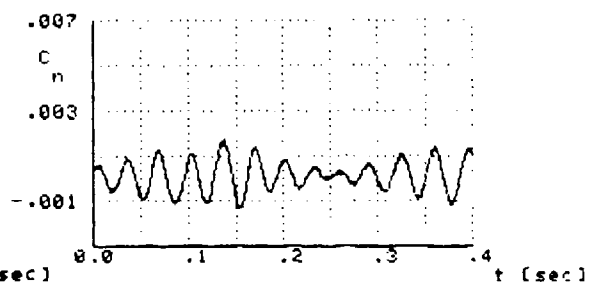
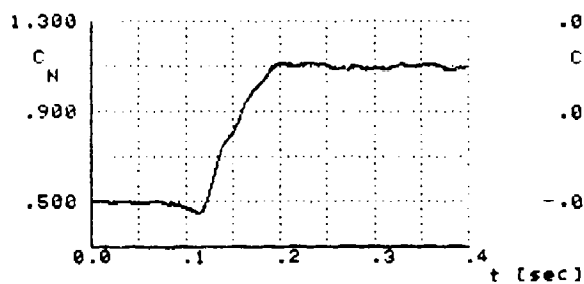


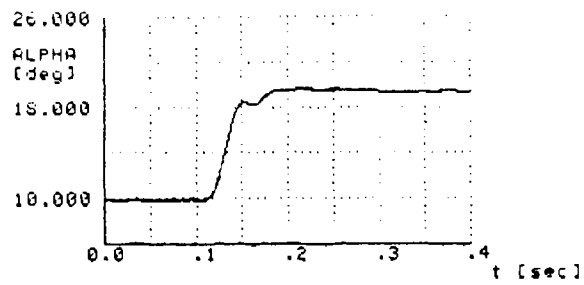




HALF (1-COS) INPUT NOSE UP

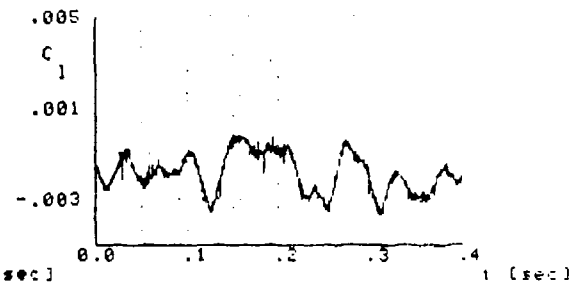
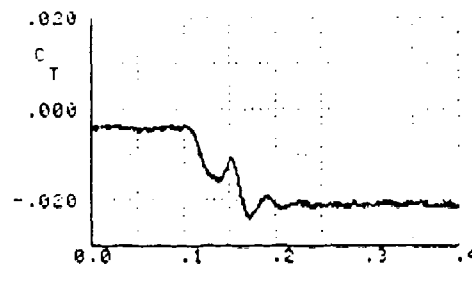
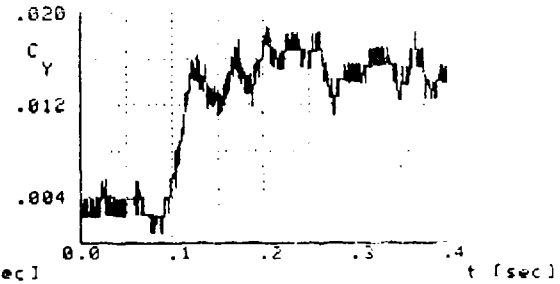
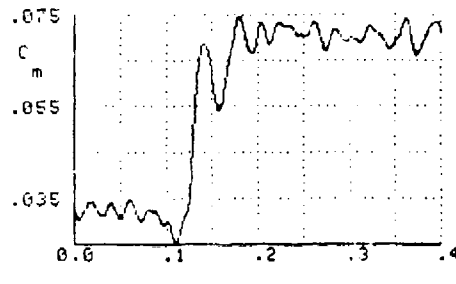
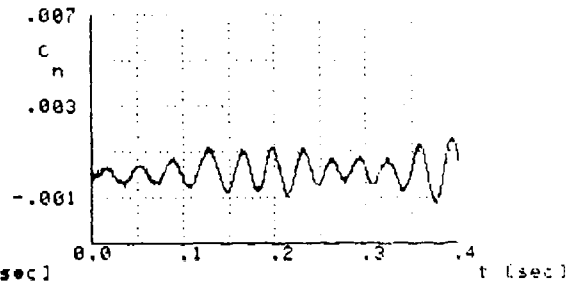
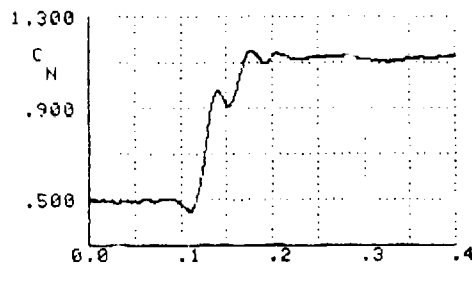
RUN = 3051
ALPHA_a = 2 deg
DALPHA_a = 8 deg
T/2 = 63 msec

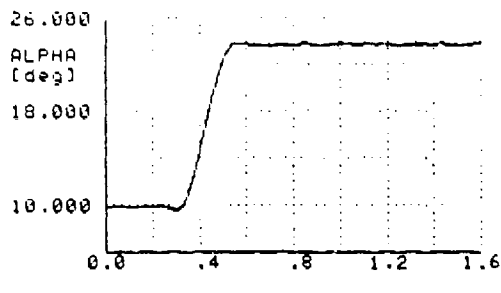




HALF (1-COS) INPUT NOSE UP

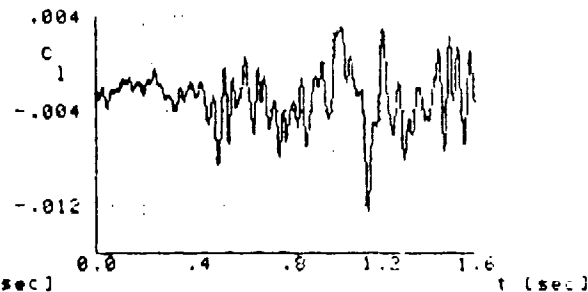
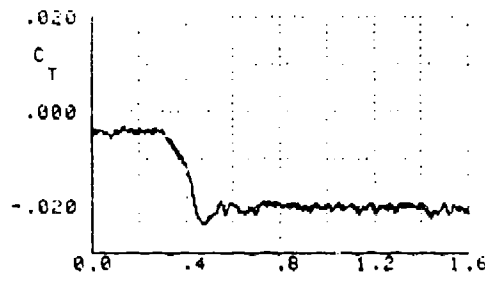
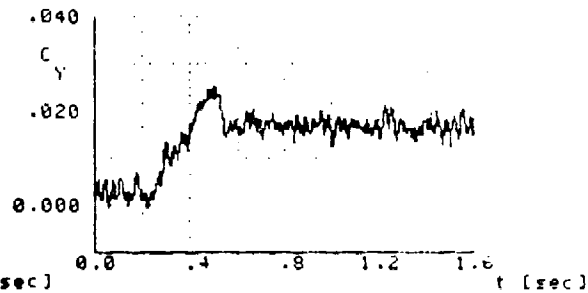
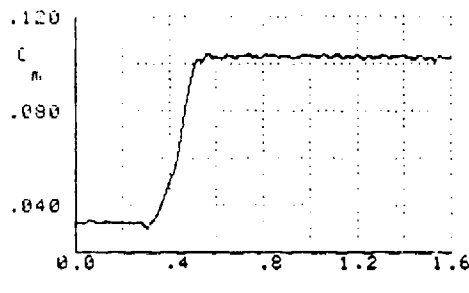
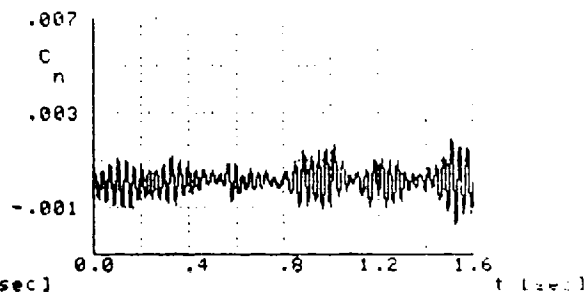
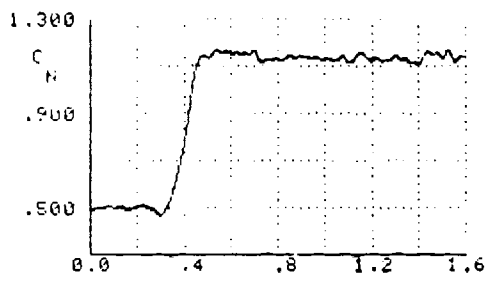
RUN = 3052
ALPHA_a = 8 deg
DALPHA_a = 8 deg
T/2 = 42 msec

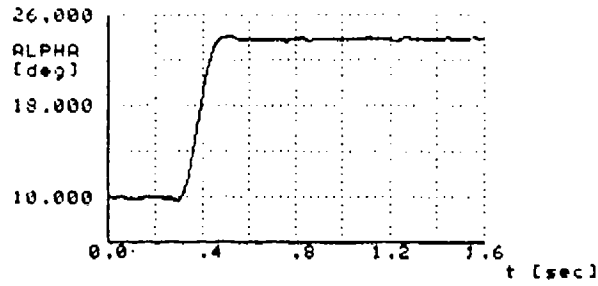




HALF (1-COS) INPUT
NOSE UP

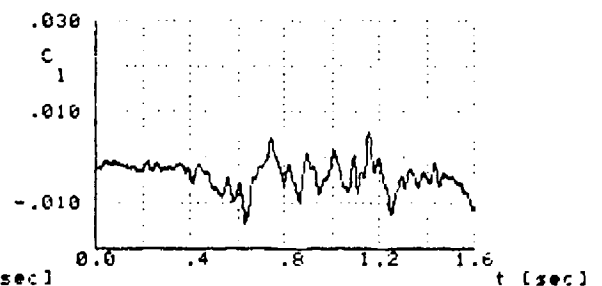
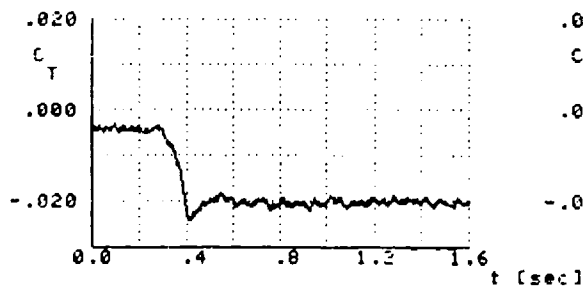
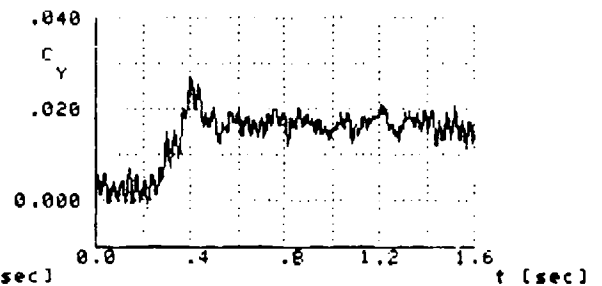
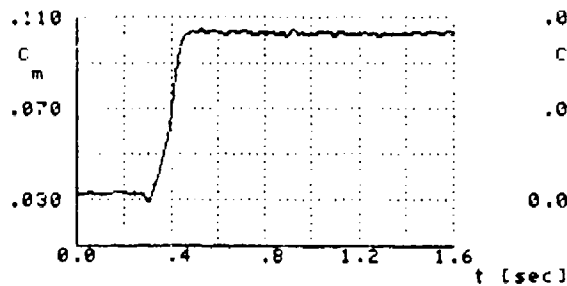
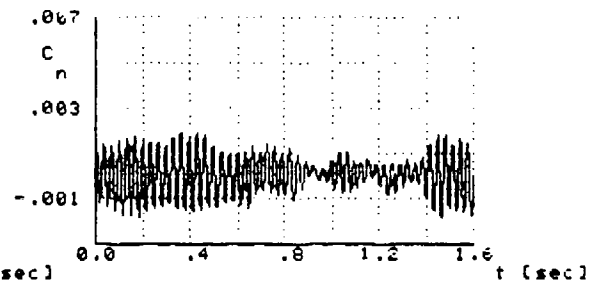
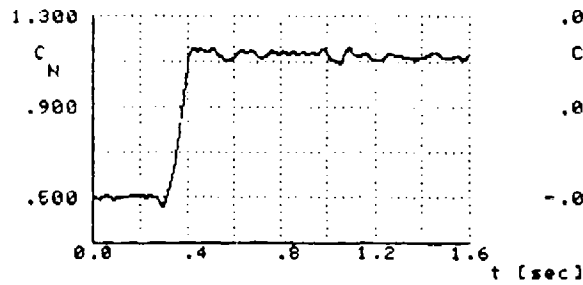
RUN = 3053
ALPHA₀ = 8 deg
DRALPHA₀ = 16 deg
T/2 = 250 msec

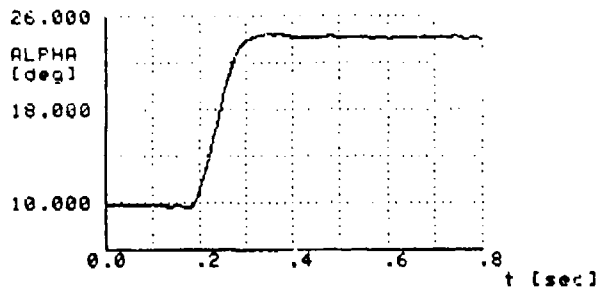




HALF (1-COS) INPUT NOSE UP

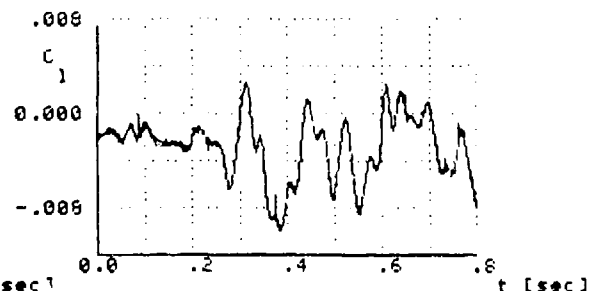
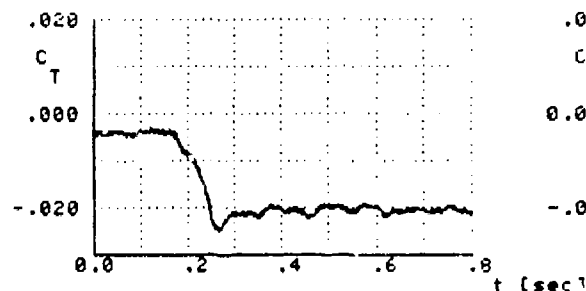
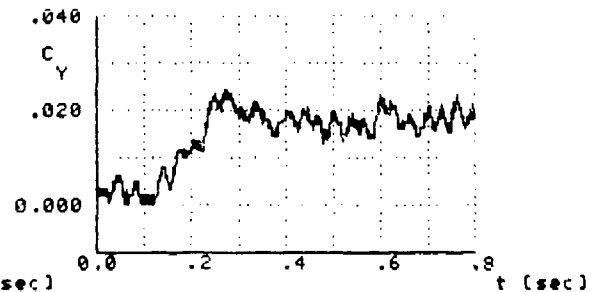
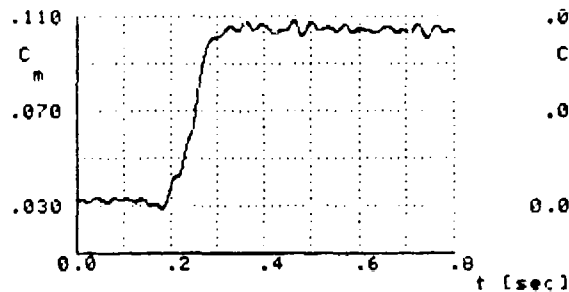
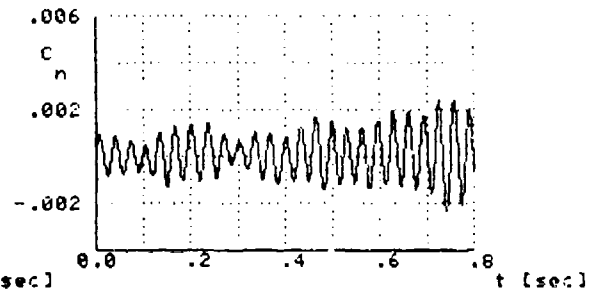
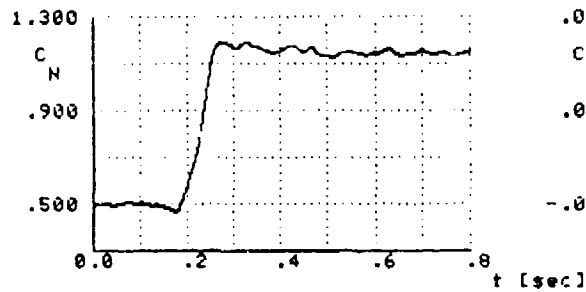
RUN = 3054
 α_a = 8 deg
 $\Delta\alpha_a$ = 16 deg
 $T/2$ = 167 msec

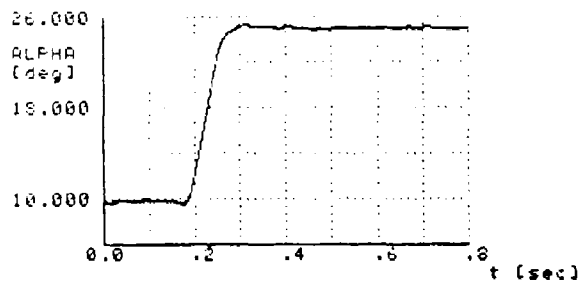




HALF (1-COS) INPUT NOSE UP

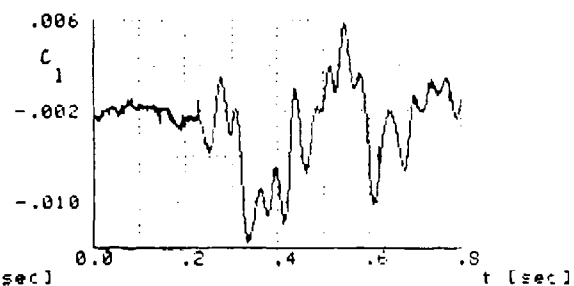
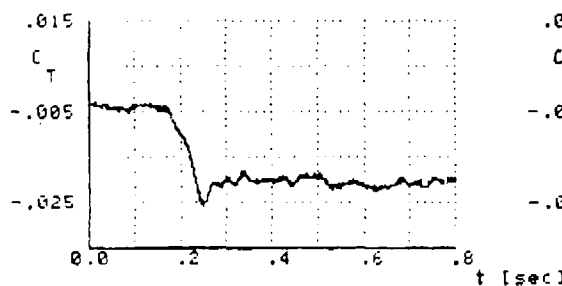
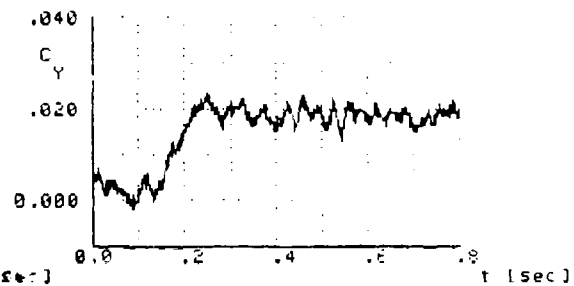
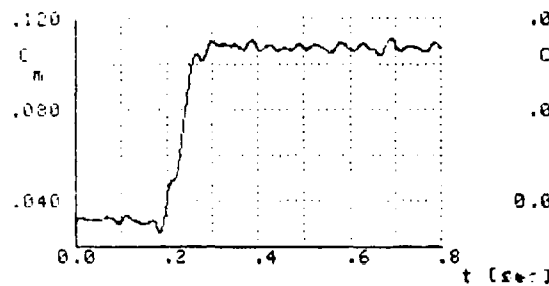
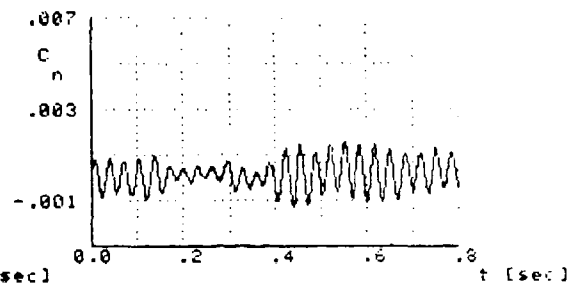
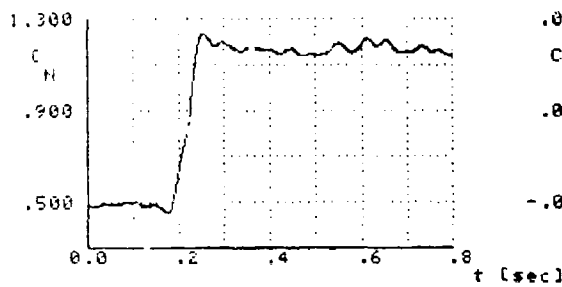
RUN = 3055
 ALPHA_0 = 8 deg
 ΔALPHA_0 = 16 deg
 $T/2$ = 125 msec

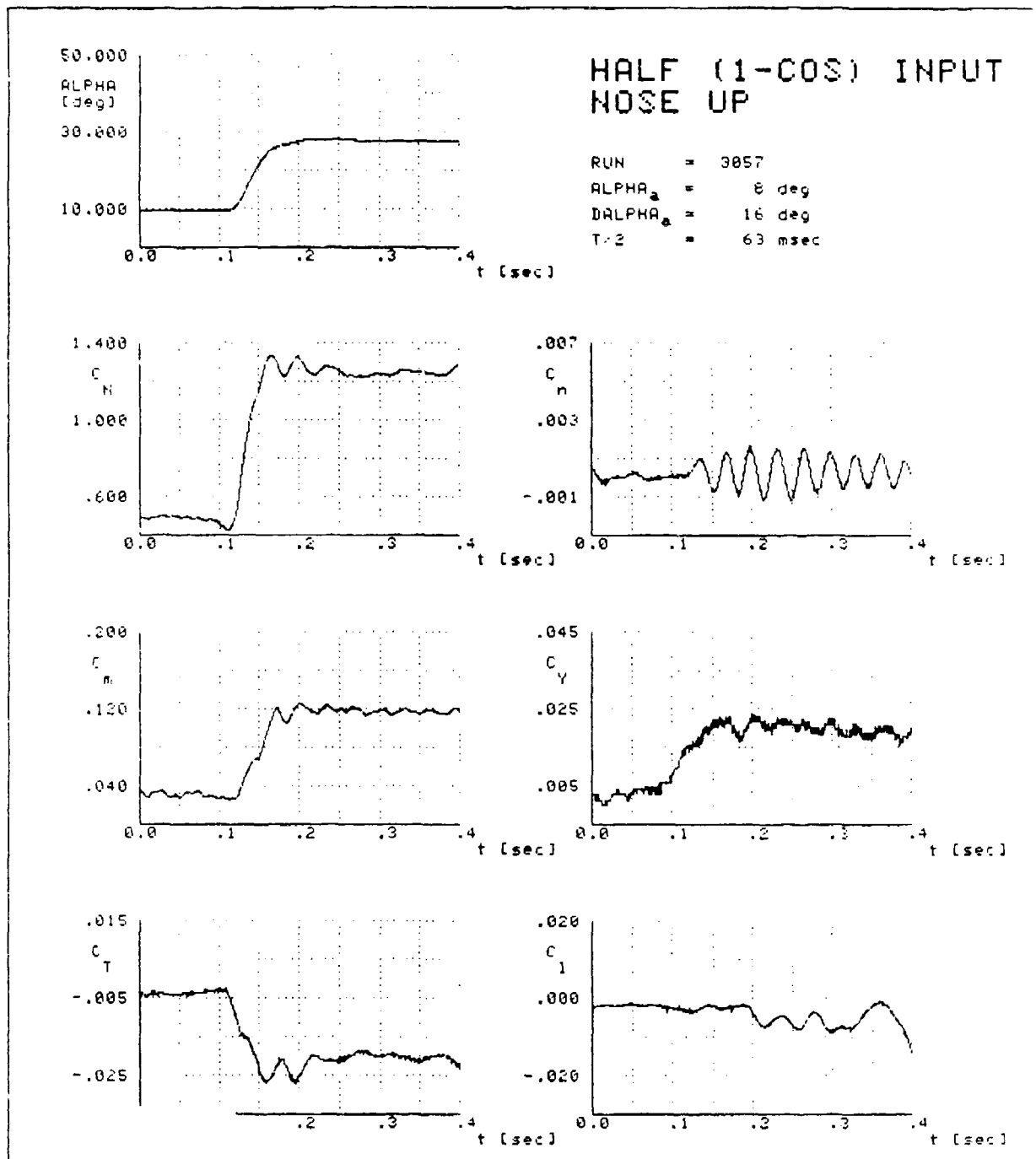


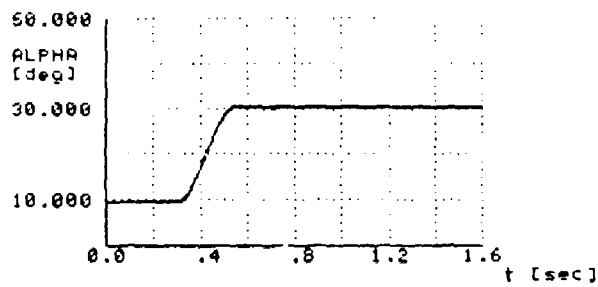


HALF (1-COS) INPUT NOSE UP

RUN = 3056
 ALPHA_a = 8 deg
 DALPHA_a = 16 deg
 T/2 = 100 msec

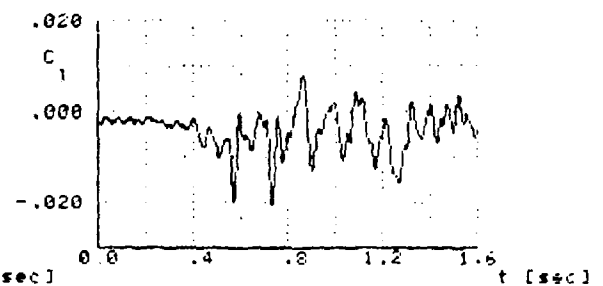
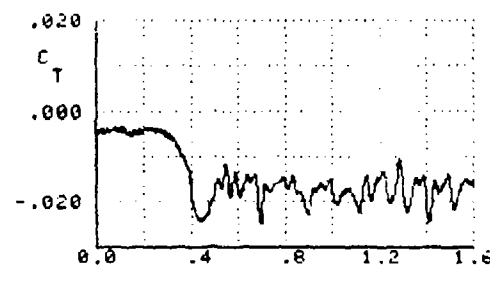
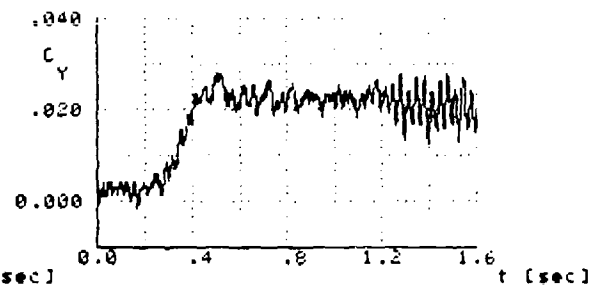
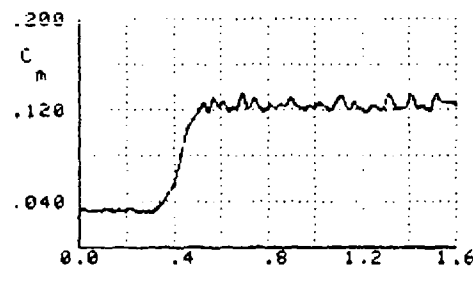
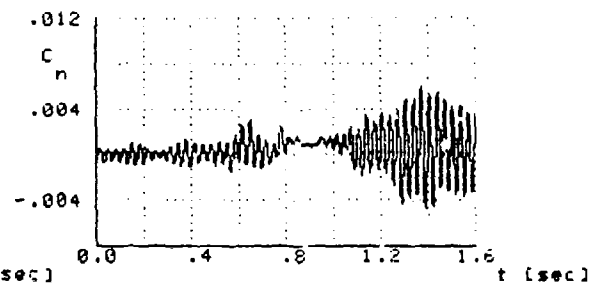
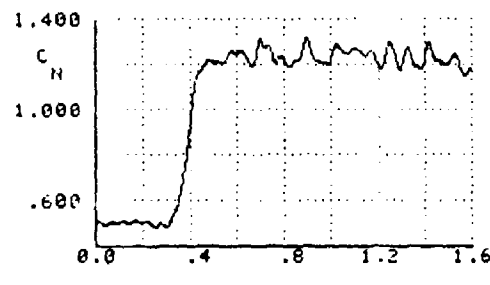


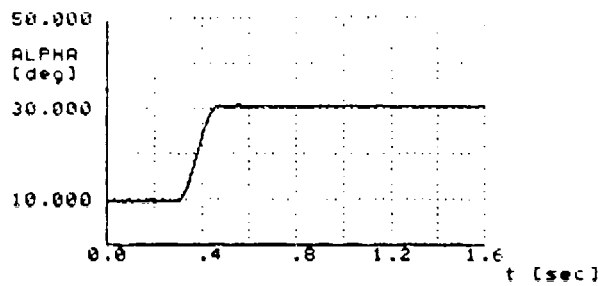




HALF (1-COS) INPUT NOSE UP

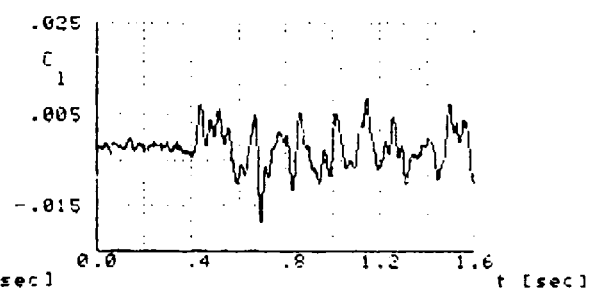
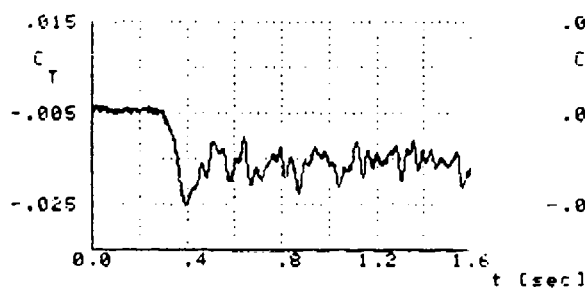
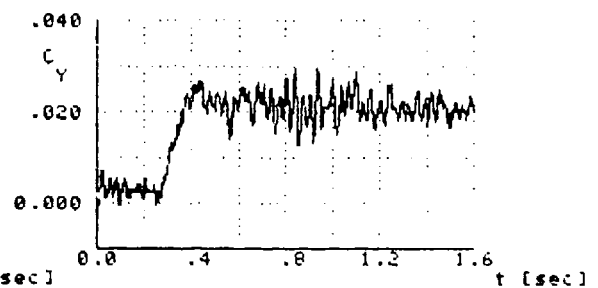
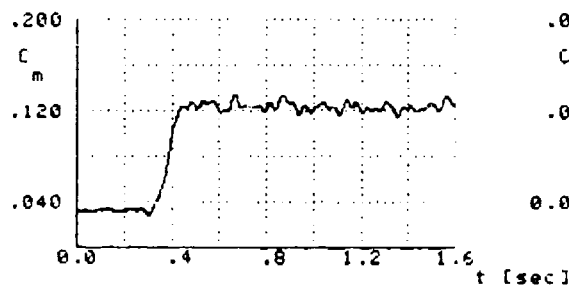
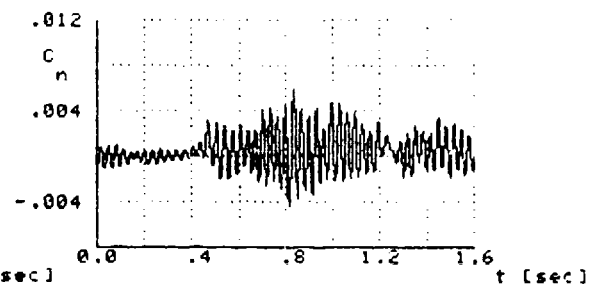
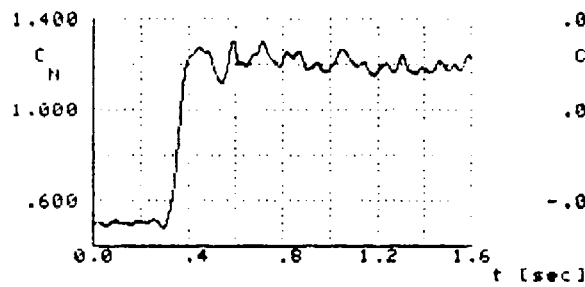
RUN = 3058
 ALPHA_a = 8 deg
 DALPHA_a = 24 deg
 T/2 = 250 msec

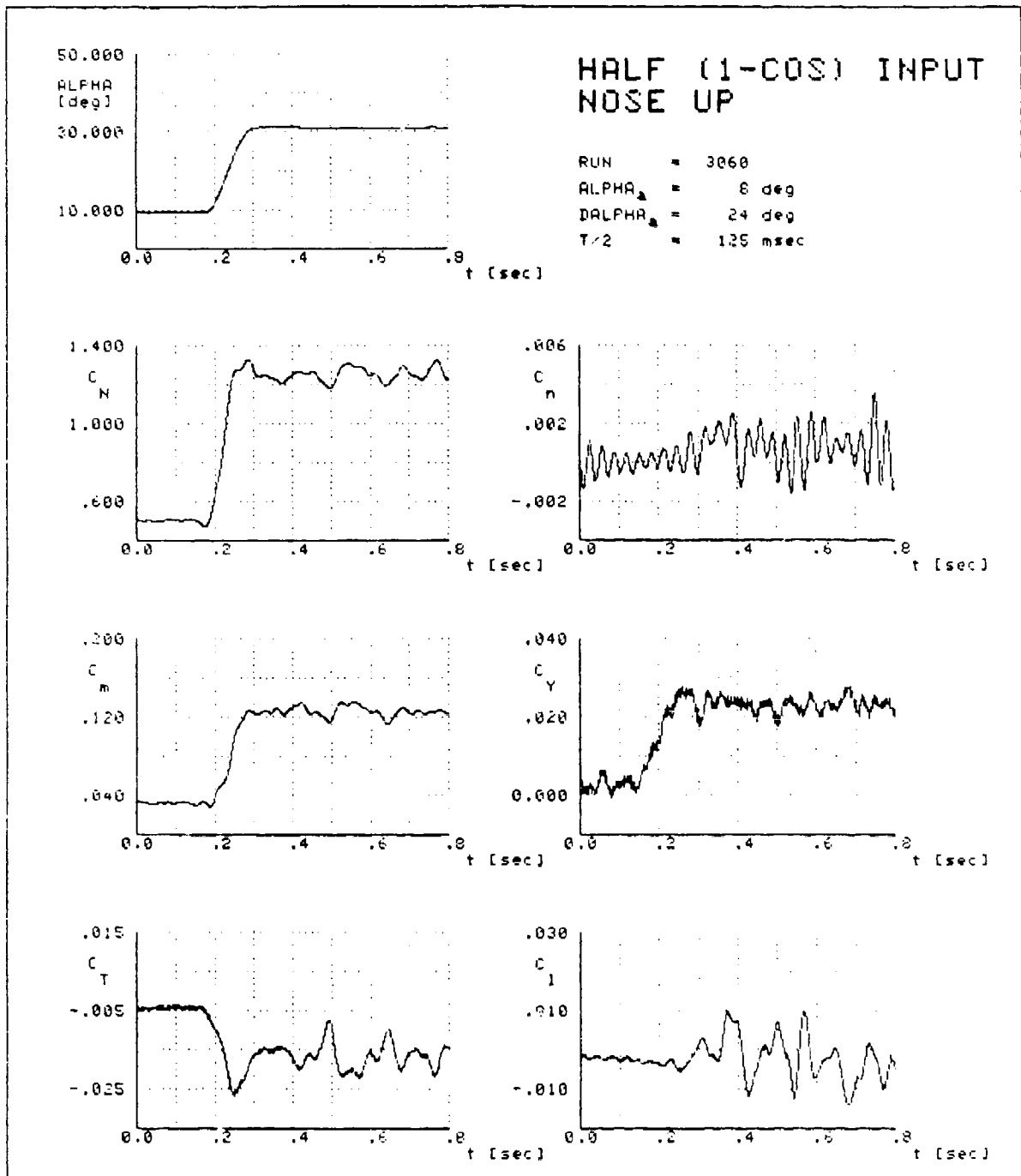


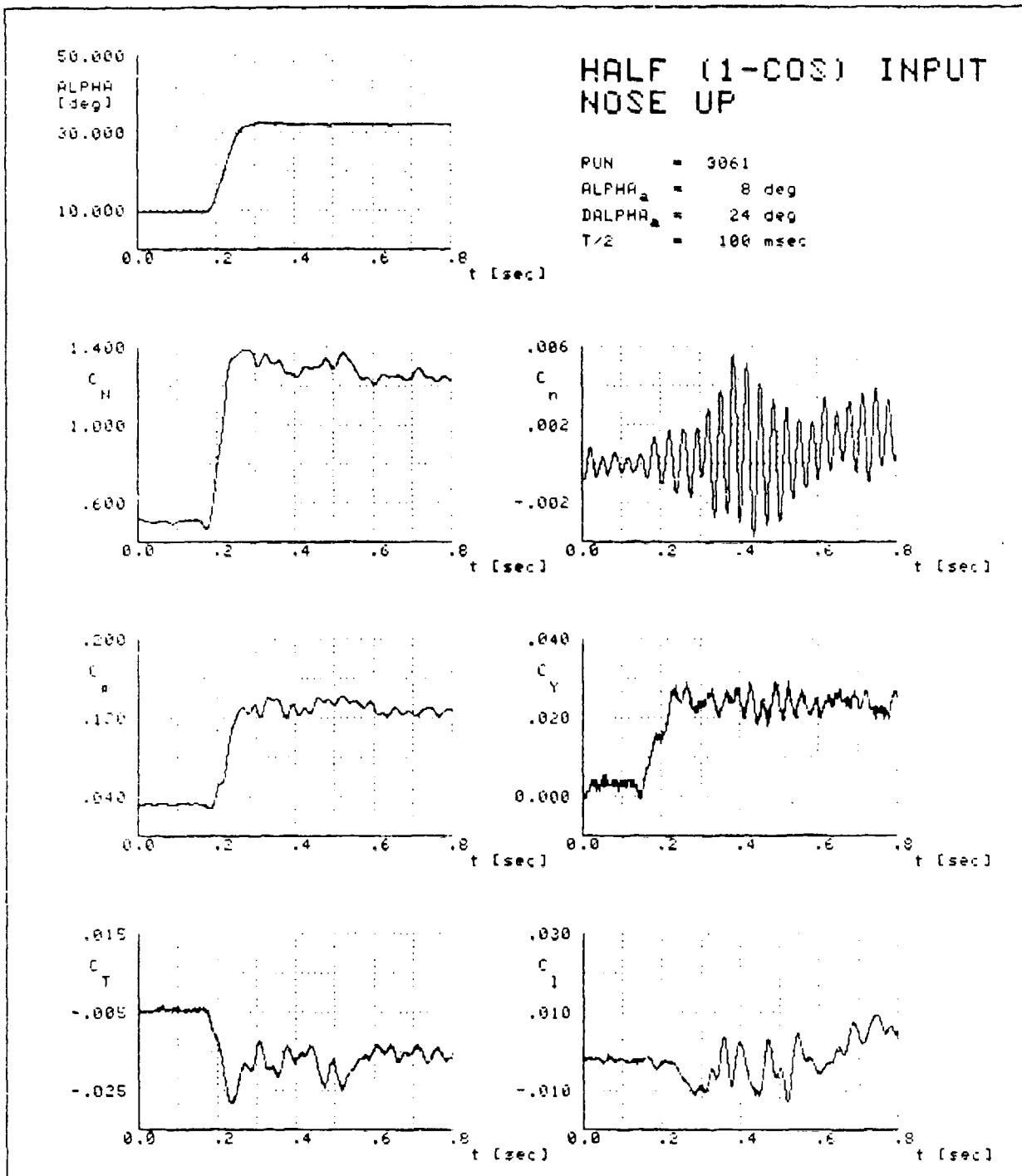


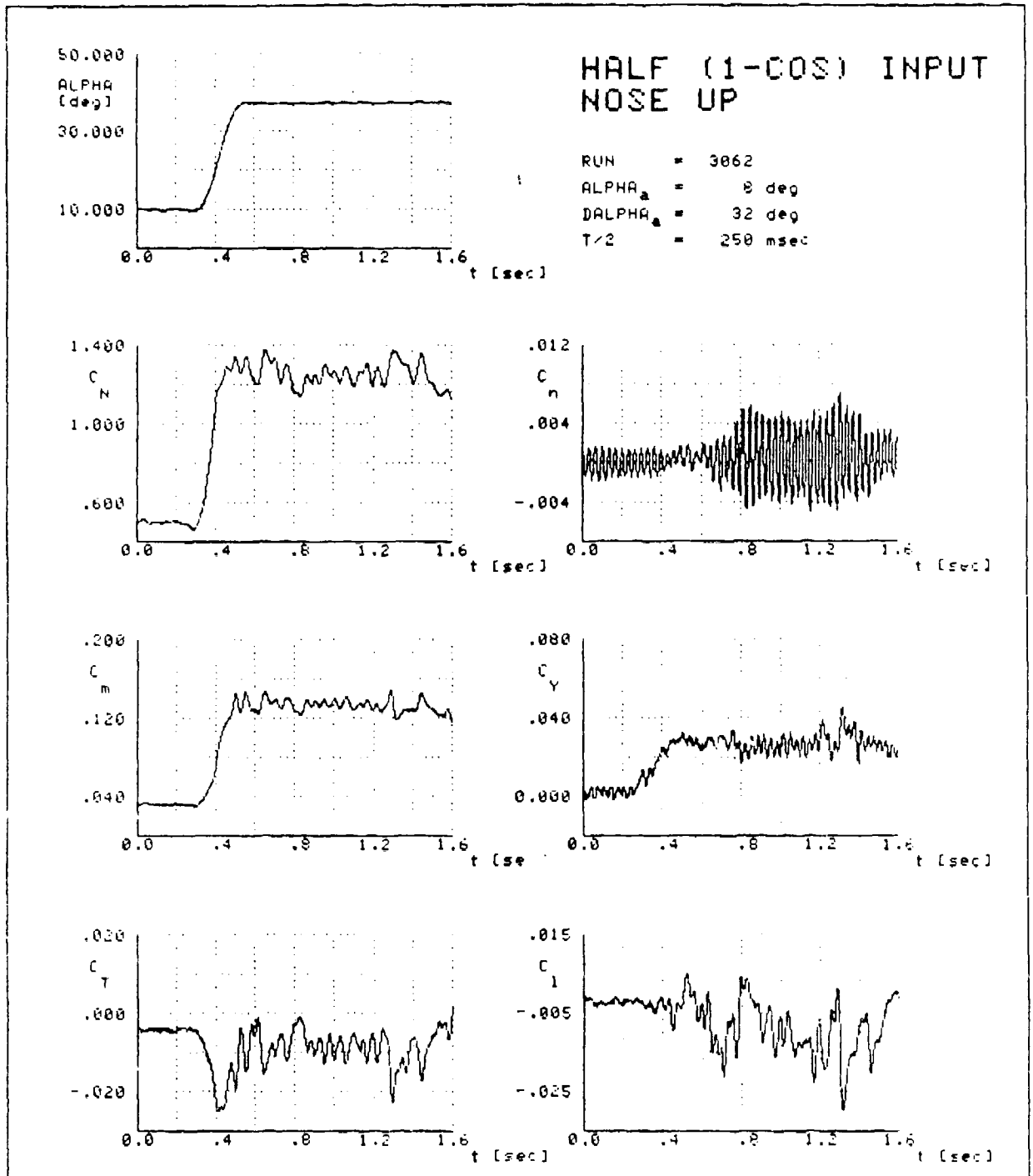
HAL (1-COS) INPUT
NOSE UP

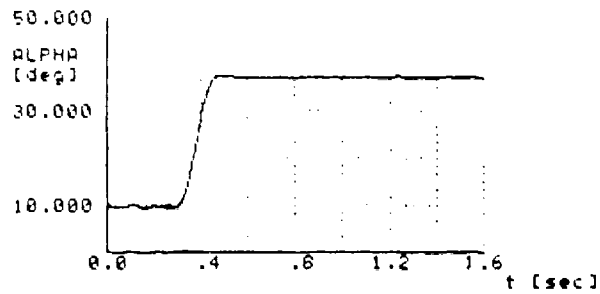
RUN = 3059
ALPHA₀ = 8 deg
ΔALPHA = 24 deg
T/2 = 167 msec





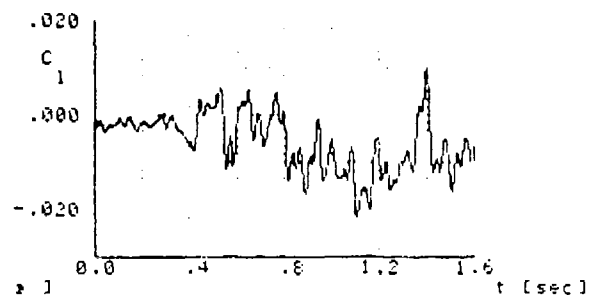
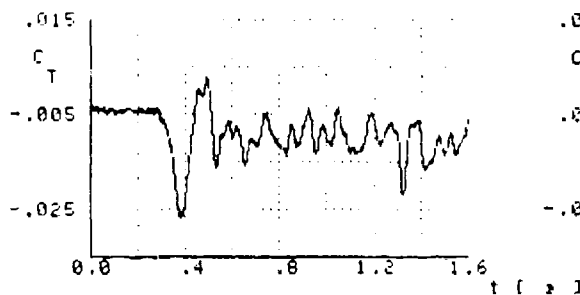
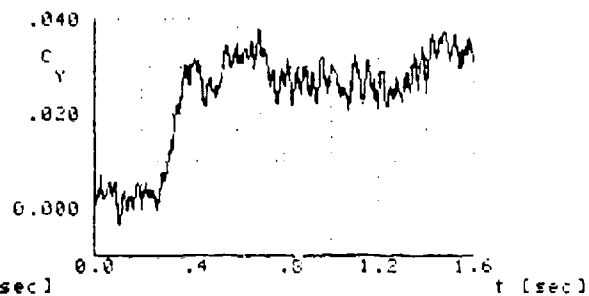
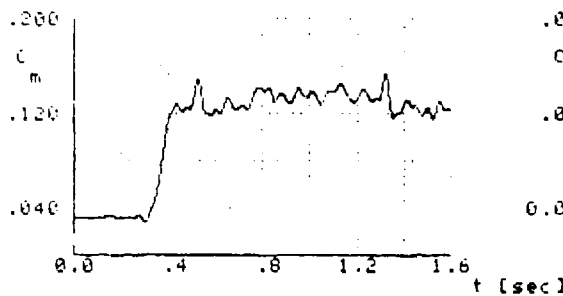
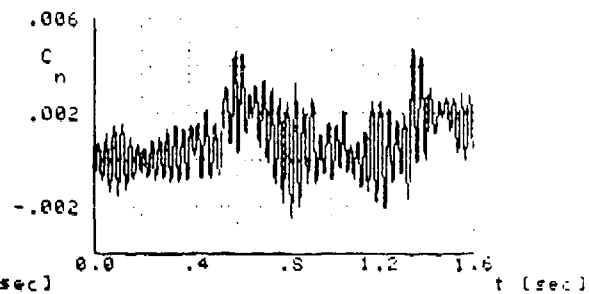
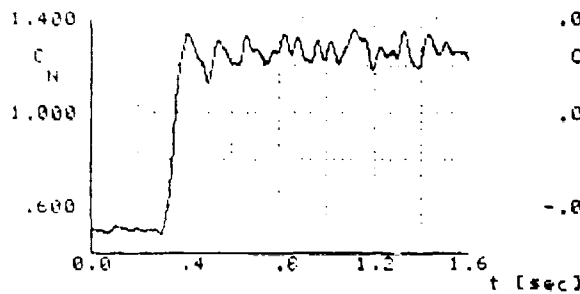


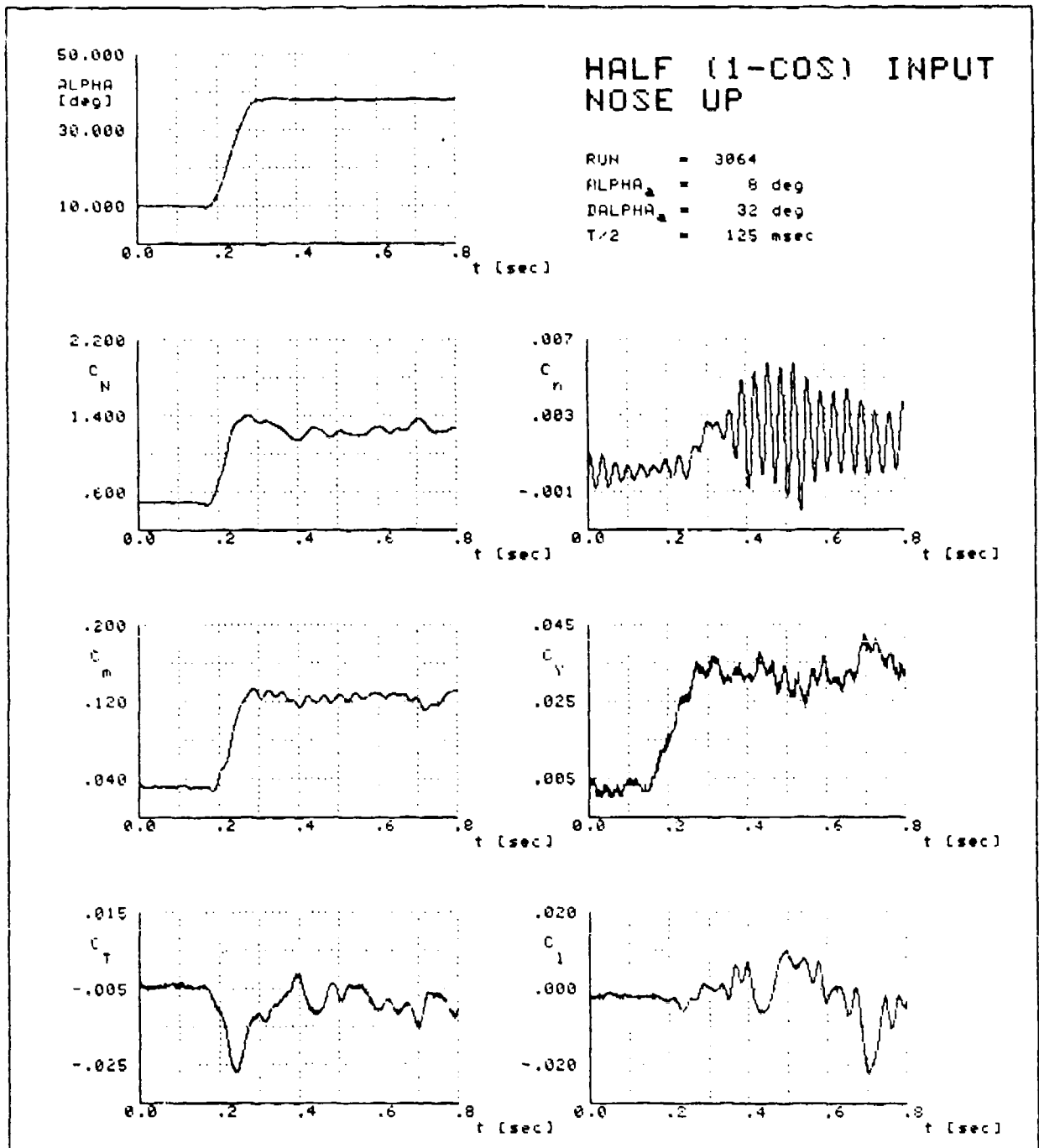


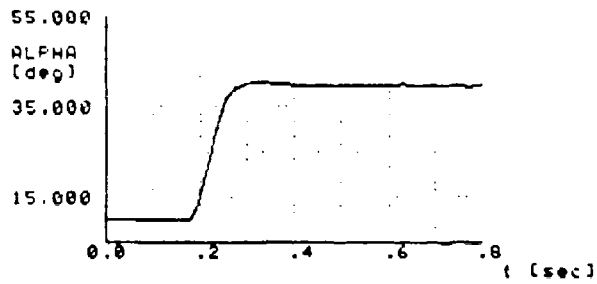


HALF (1-COS) INPUT NOSE UP

RUN = 3063
 α_A = 8 deg
 $\Delta\alpha_A$ = 32 deg
 $T/2$ = 167 msec

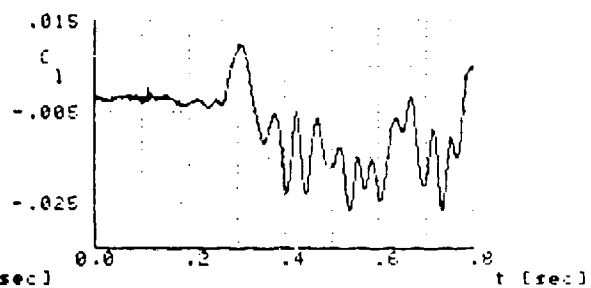
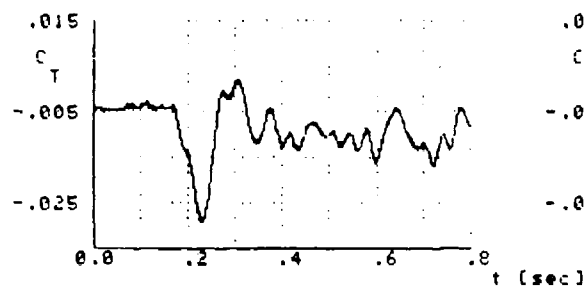
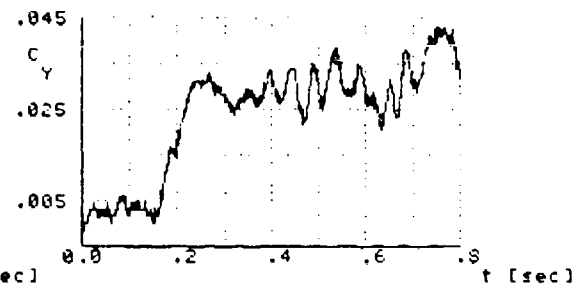
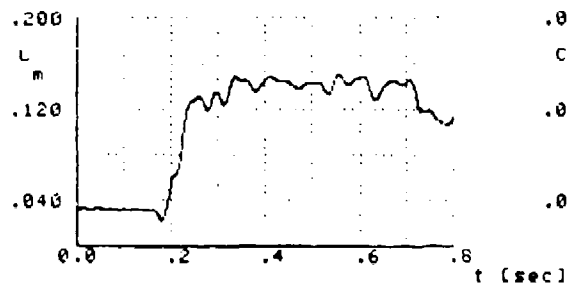
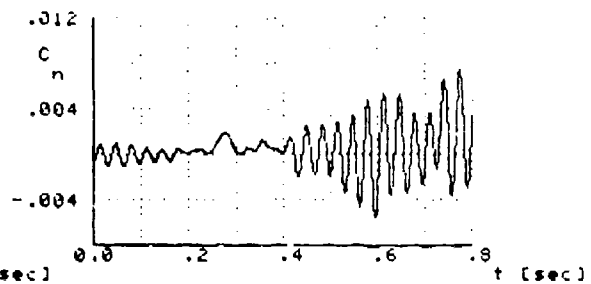
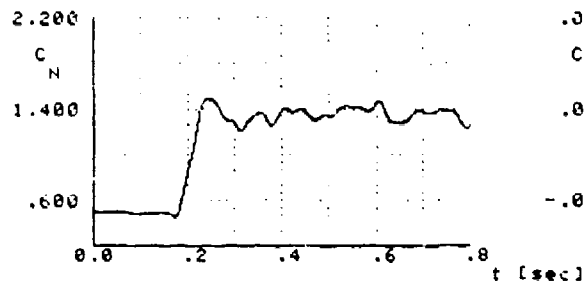


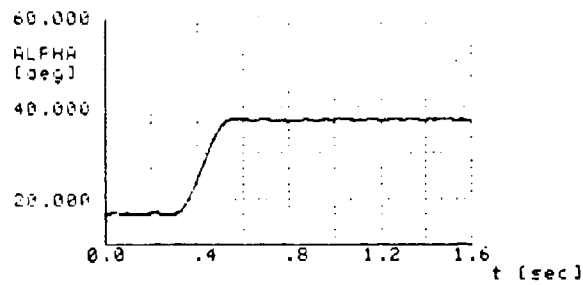




HALF (1-COS) INPUT NOSE UP

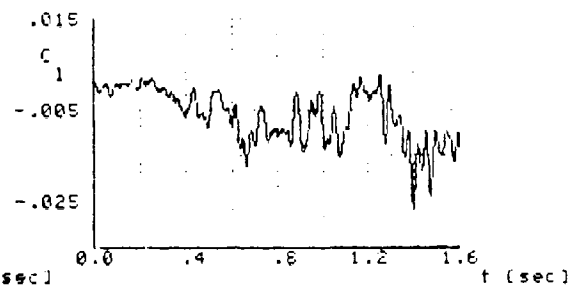
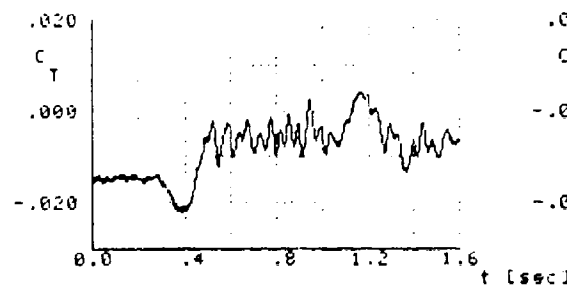
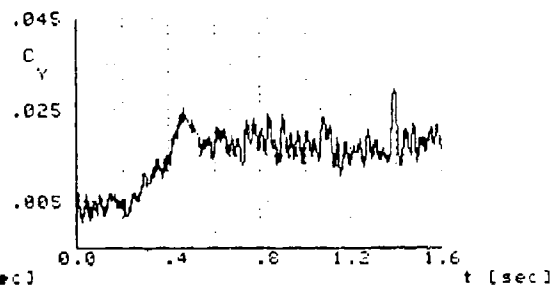
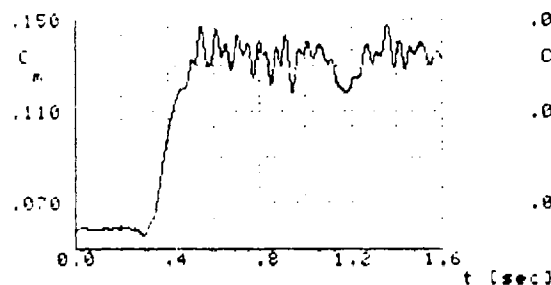
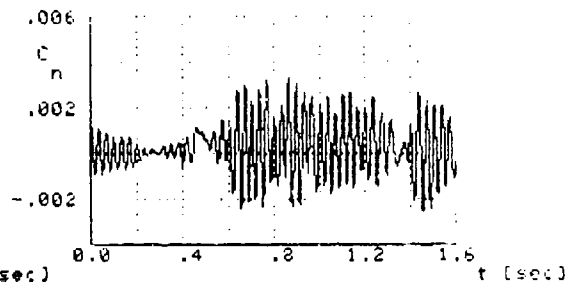
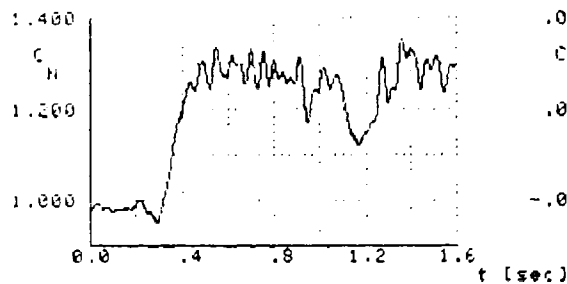
RUN = 3865
ALPHA = 8 deg
DALPHA = 32 deg
T/2 = 100 msec

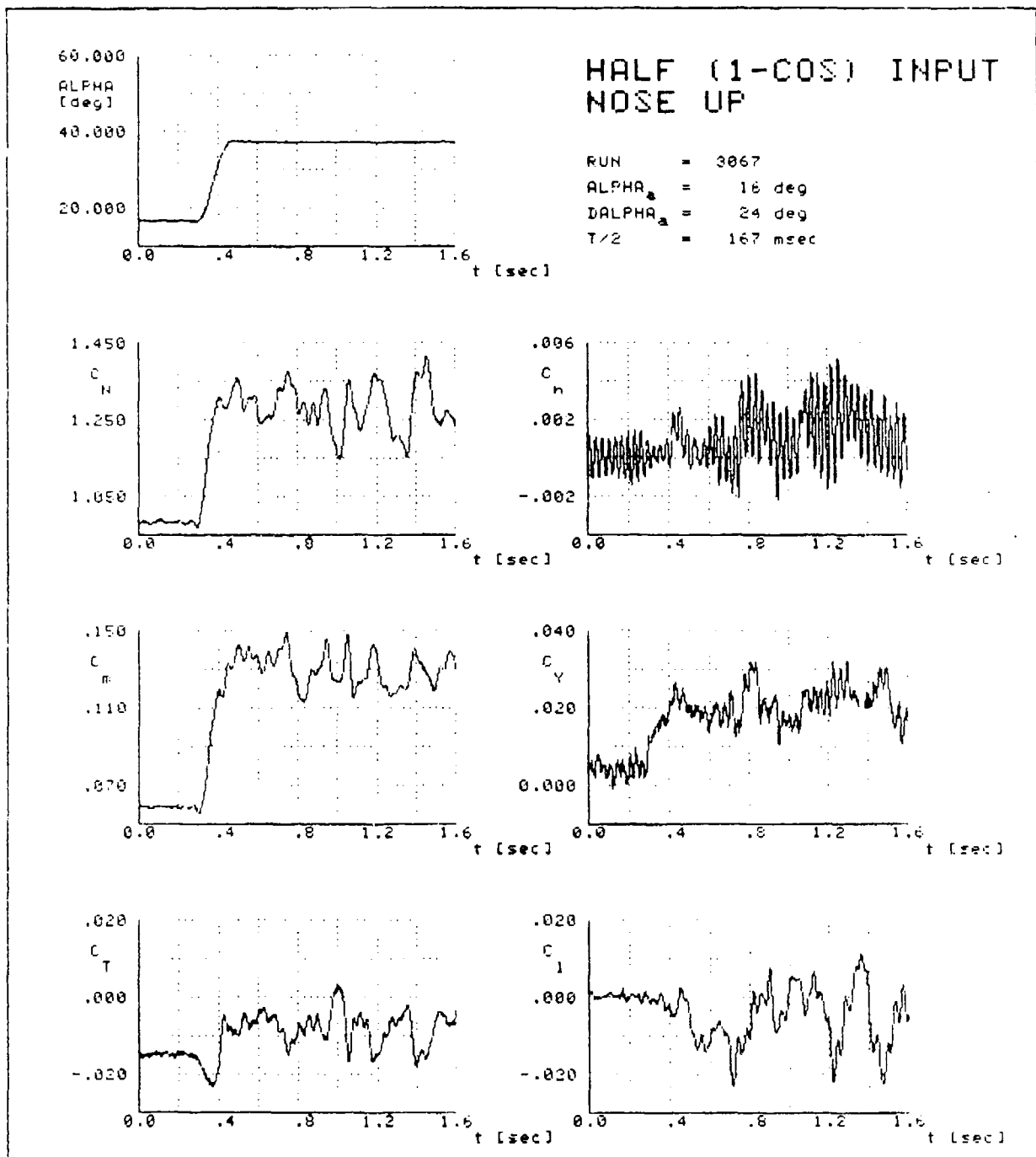


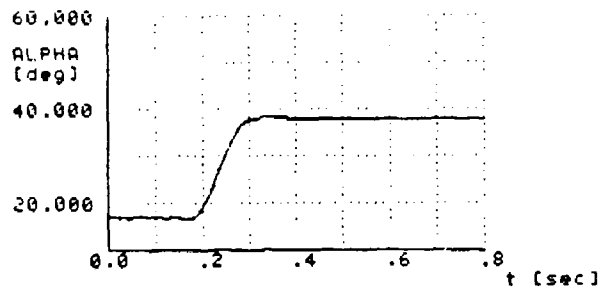


HALF (1-COS) INPUT NOISE UP

RUN = 3066
ALPHA₀ = 16 deg
DALPHA₀ = 24 deg
T/2 = 250 msec

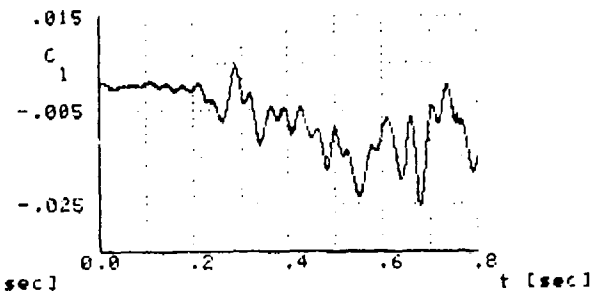
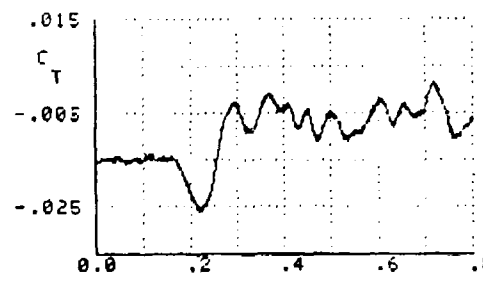
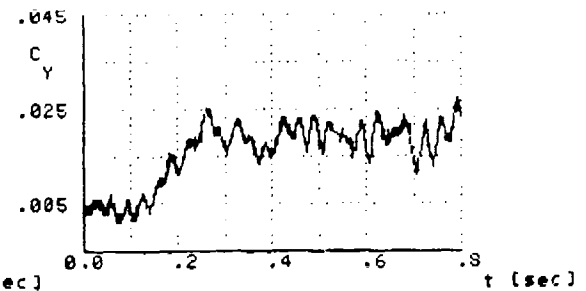
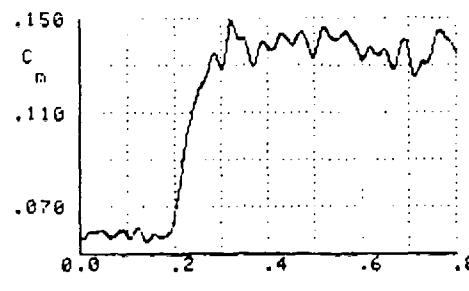
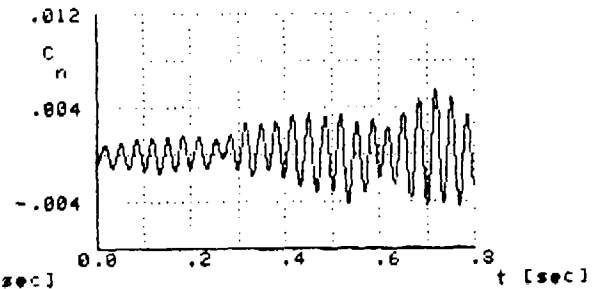
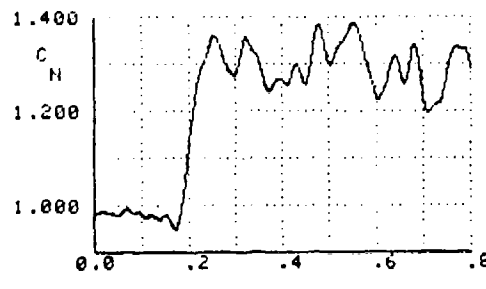


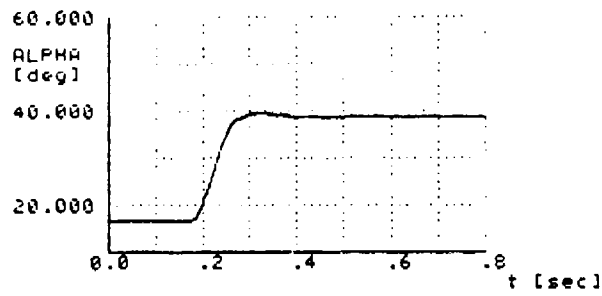




HALF (1-COS) INPUT NOSE UP

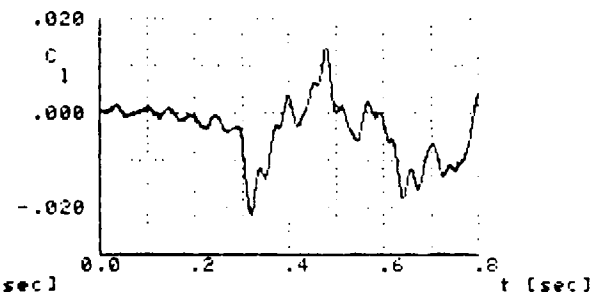
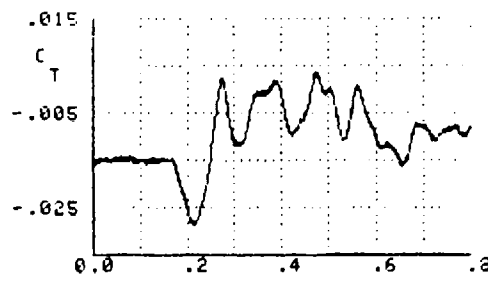
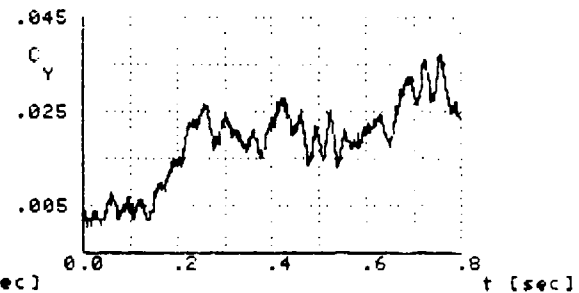
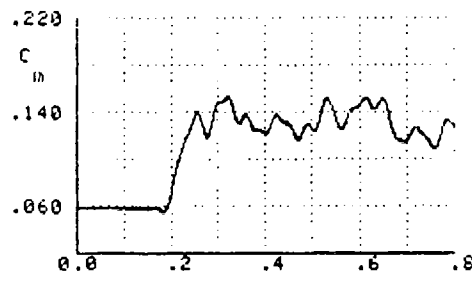
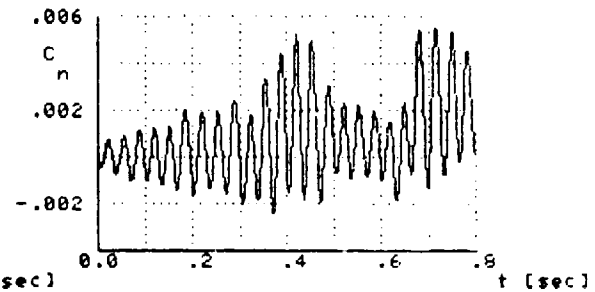
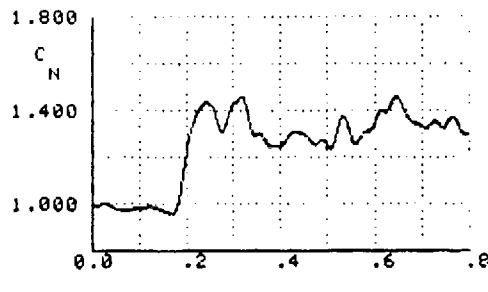
RUN = 3068
ALPHA_a = 16 deg
DALPHA_a = 24 deg
T/2 = 125 msec

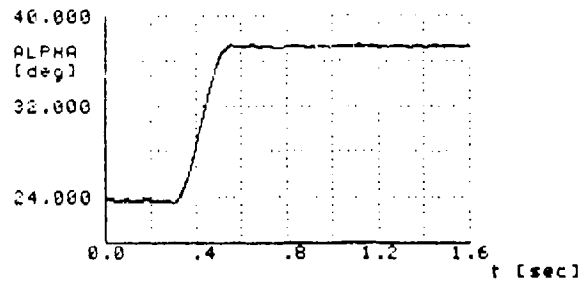




HALF (1-COS) INPUT NOISE UP

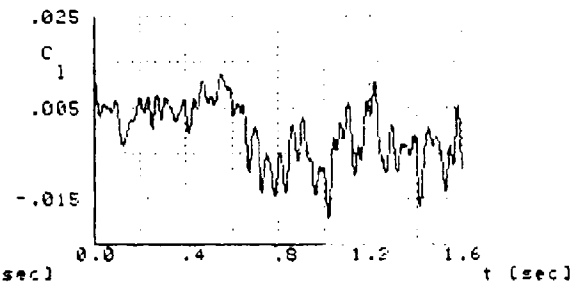
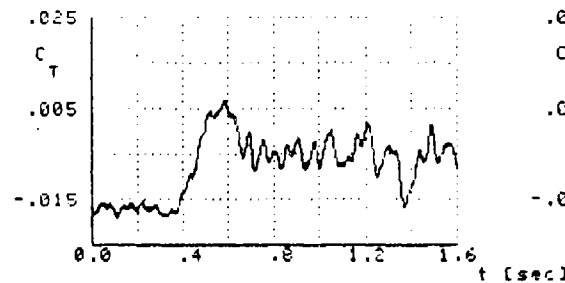
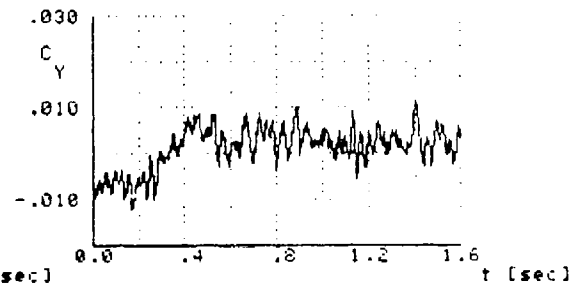
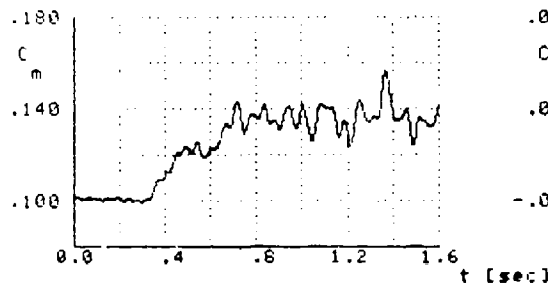
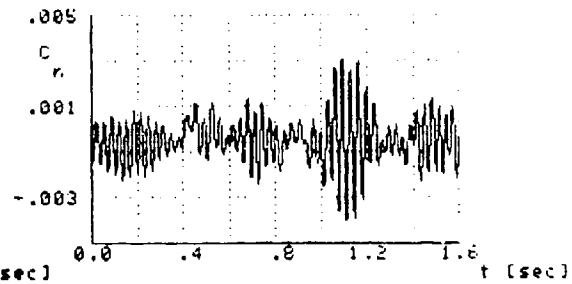
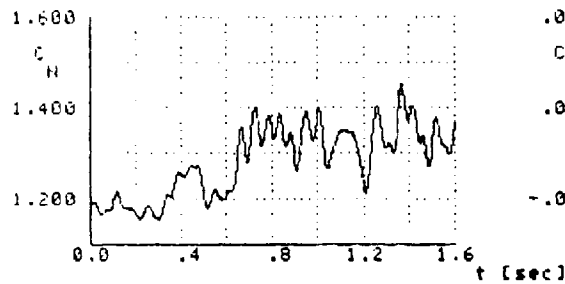
RUN = 3069
ALPHA_A = 16 deg
DALPHA_A = 24 deg
T/2 = 100 msec

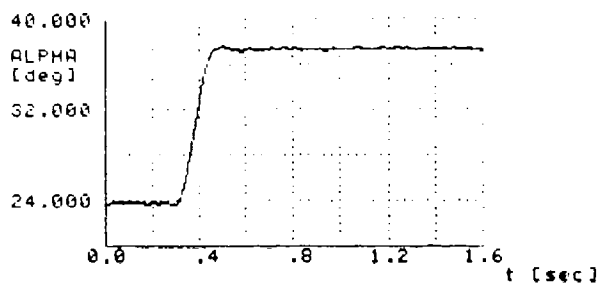




HALF (1-COS) INPUT NOISE UP

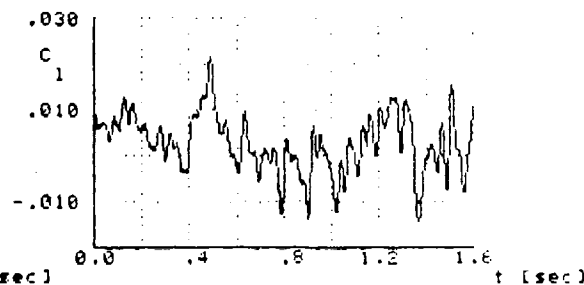
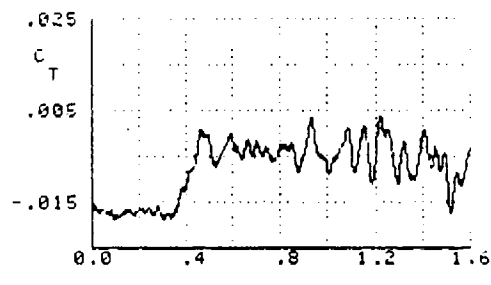
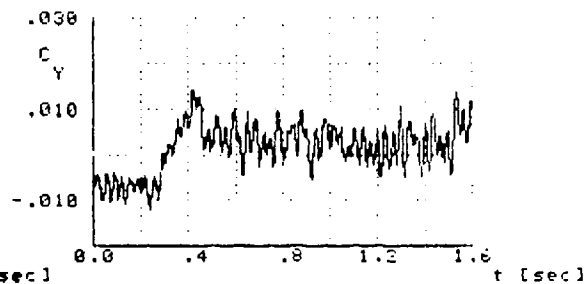
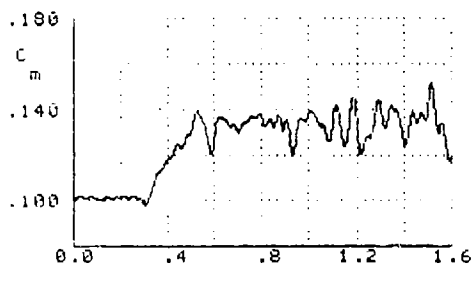
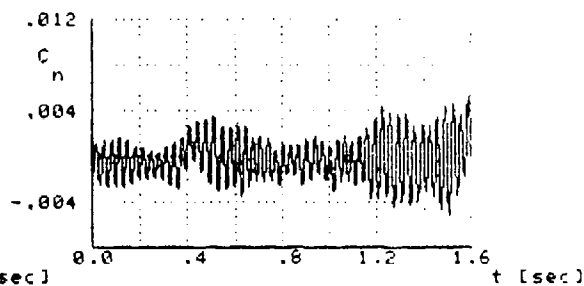
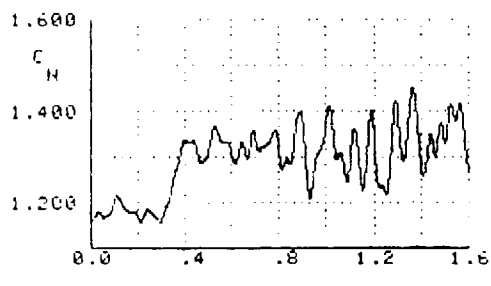
RUN = 3070
 α_a = 24 deg
 $\Delta\alpha_a$ = 16 deg
 $T/2$ = 250 msec

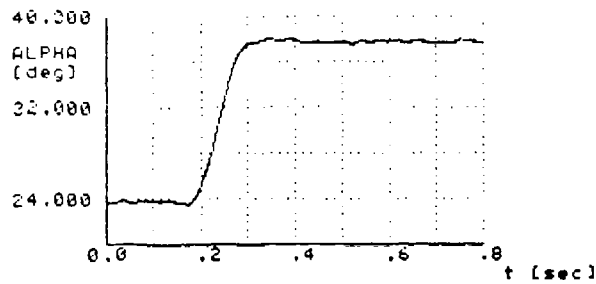




HALF (1-COS) INPUT NOSE UP

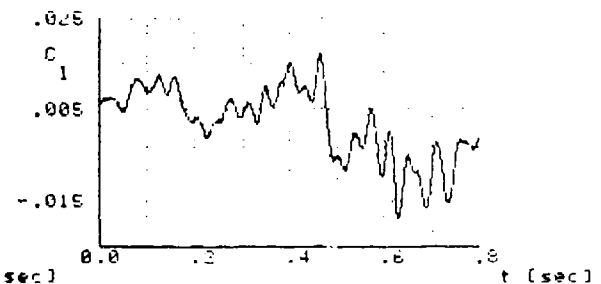
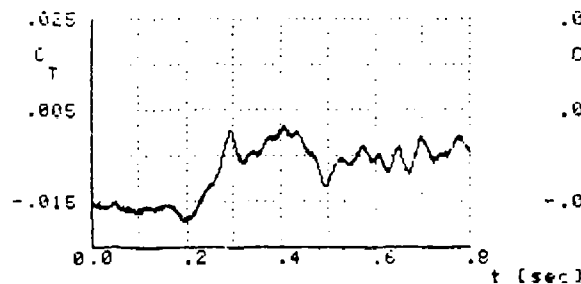
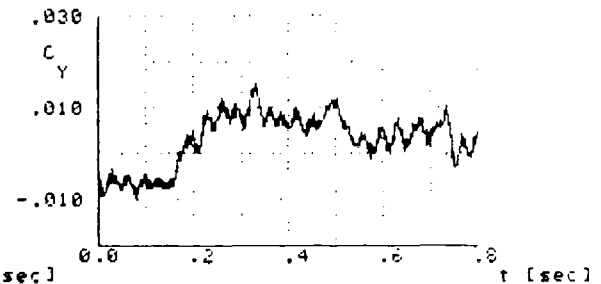
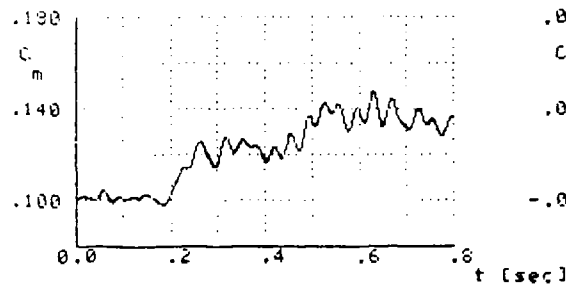
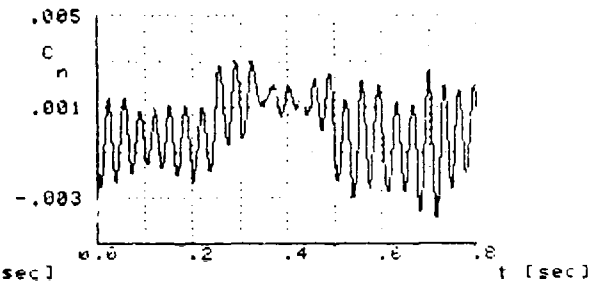
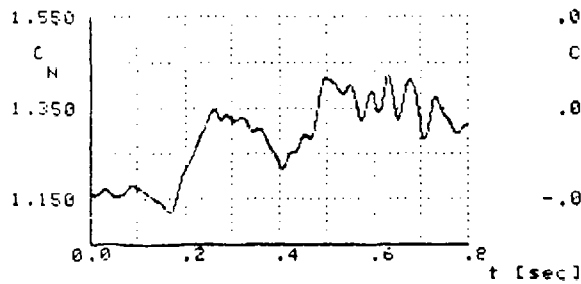
RUN = 3071
 ALPHA_a = 24 deg
 DIALPHA_a = 16 deg
 T/2 = 167 msec

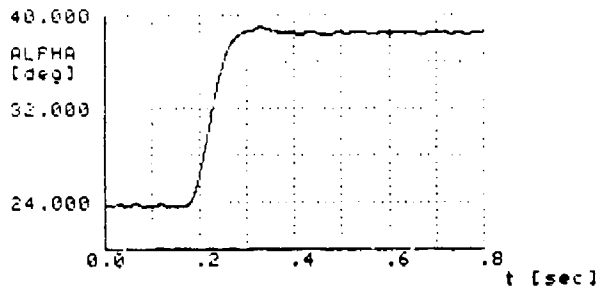




HALF (1-COS) INPUT NOSE UP

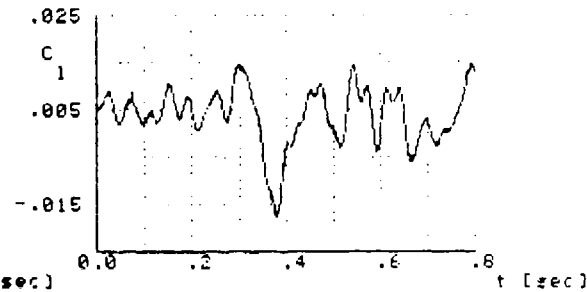
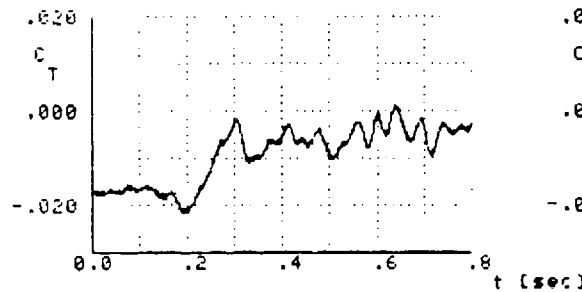
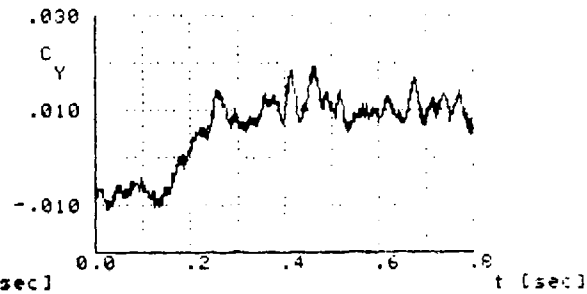
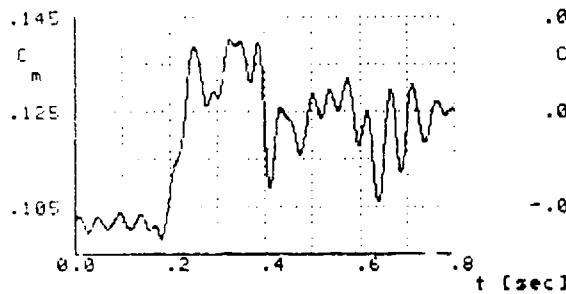
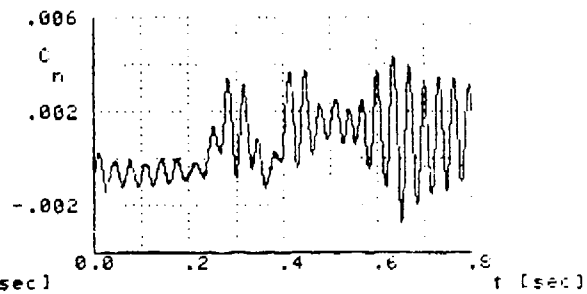
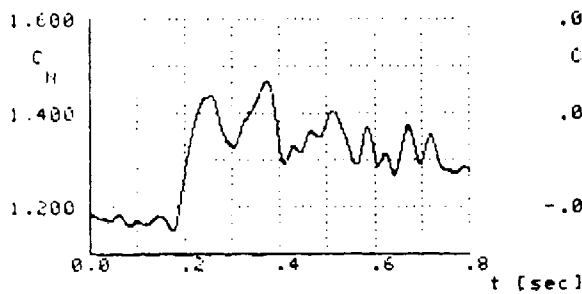
RUN = 3072
ALPHA₀ = 24 deg
DRALPHA₀ = 16 deg
T/2 = 125 msec

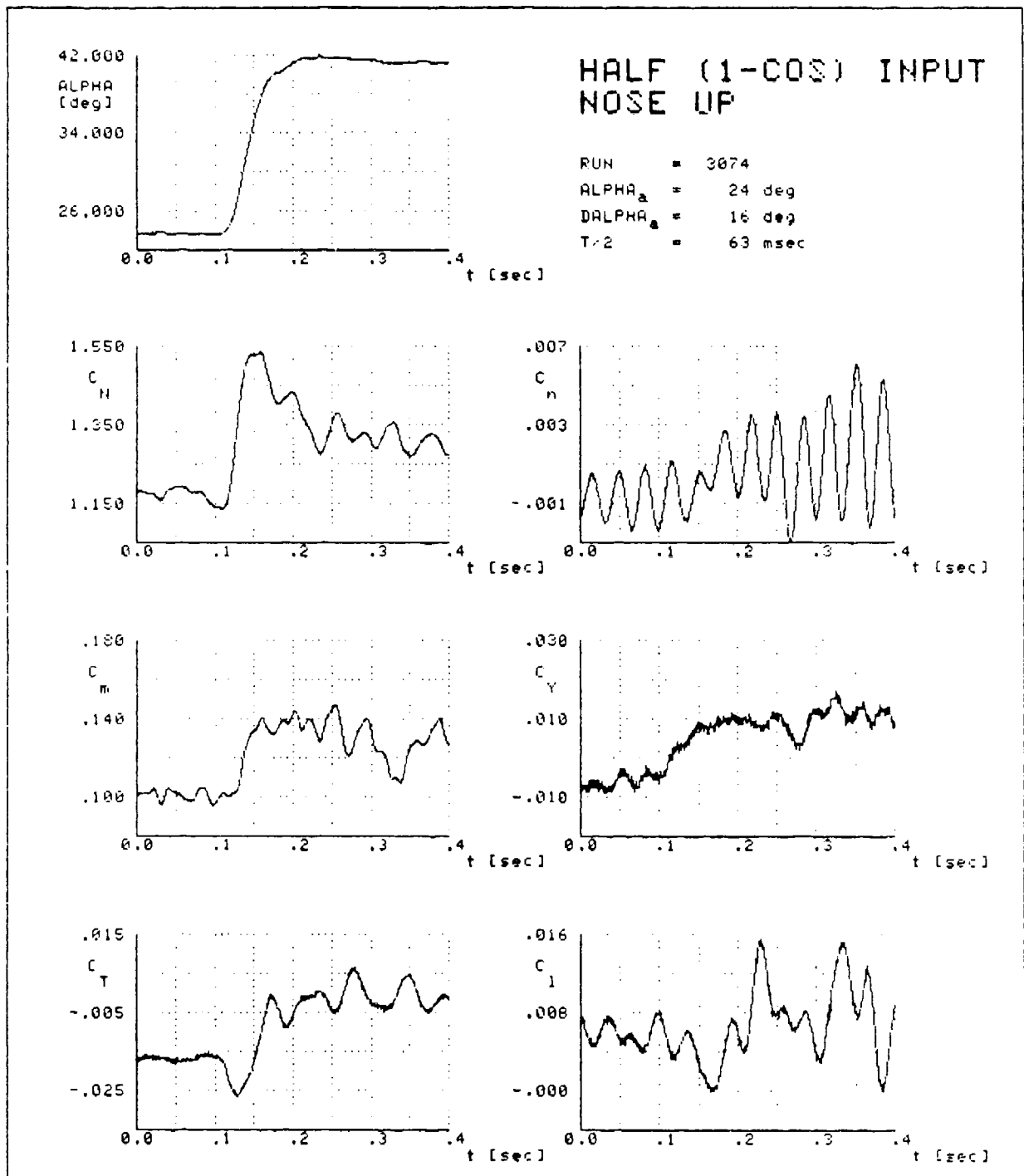


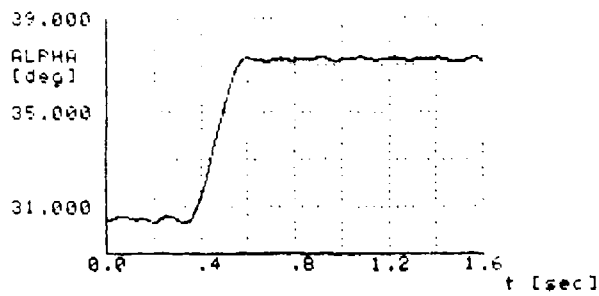


HALF (1-COS) INPUT NOSE UP

RUN = 3073
 ALPHA₂ = 24 deg
 ΔALPHA₂ = 16 deg
 T/2 = 100 msec

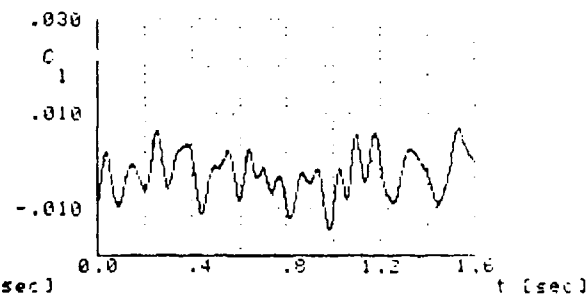
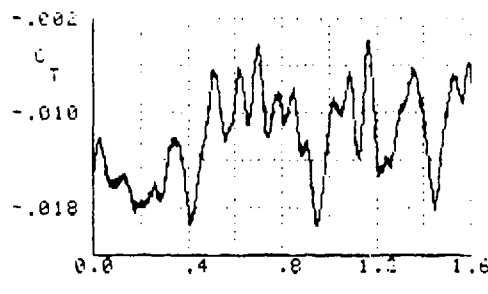
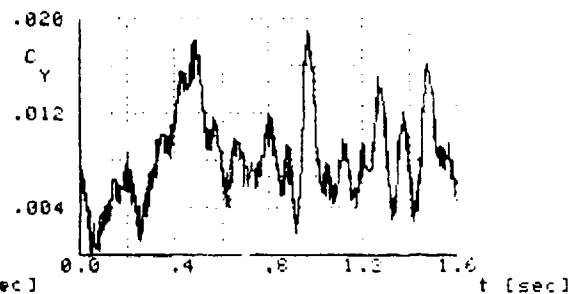
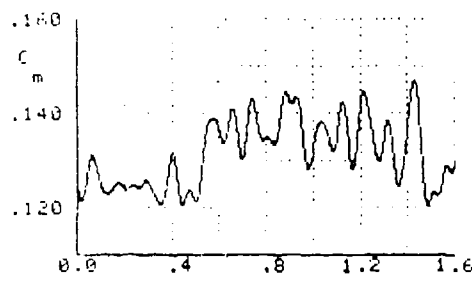
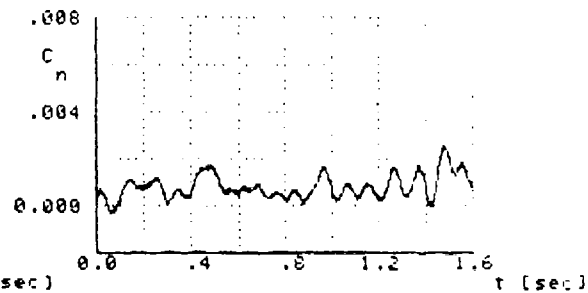
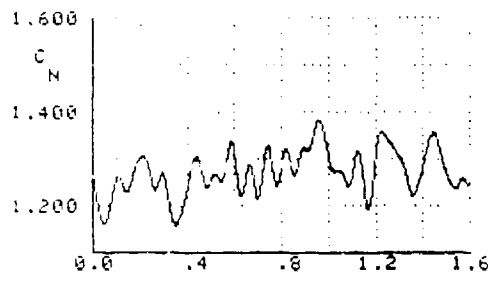


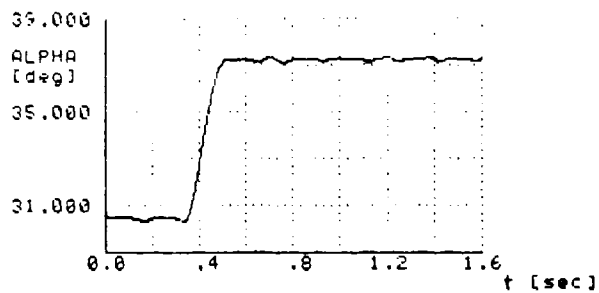




HALF (1-COS) INPUT NOSE UP

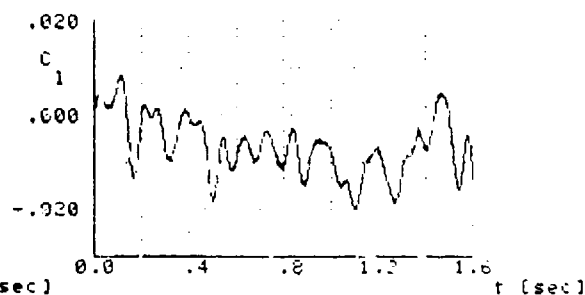
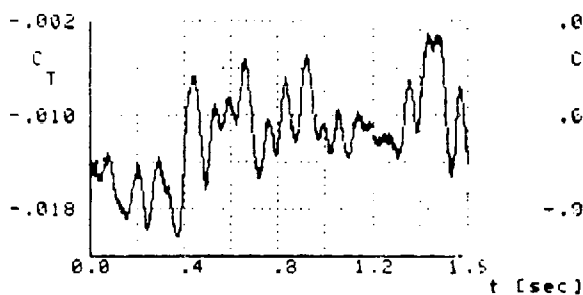
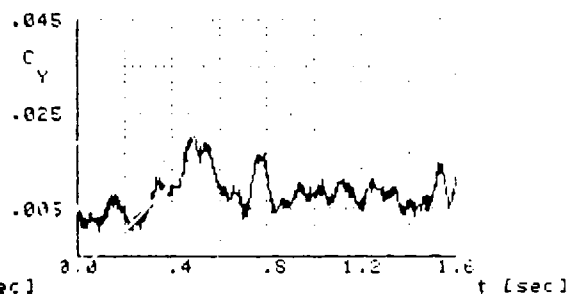
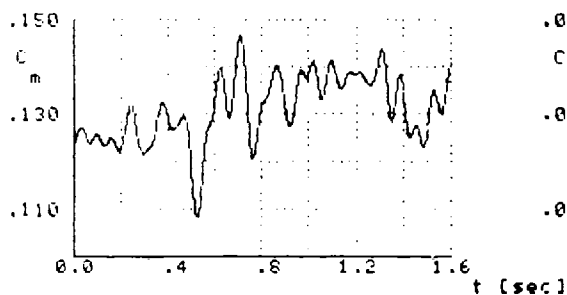
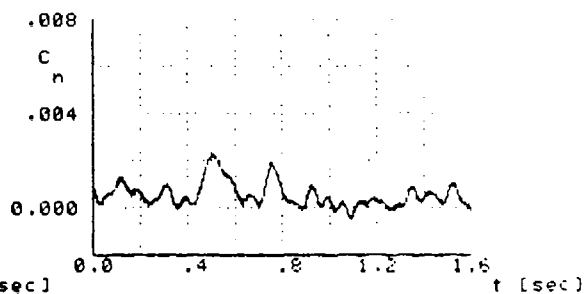
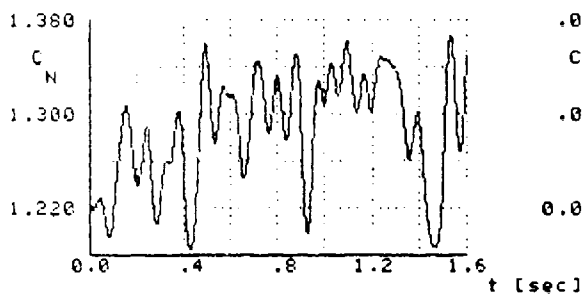
RUN = 3075
ALPHA = 32 deg
DALPHA = 8 deg
T/2 = 250 msec

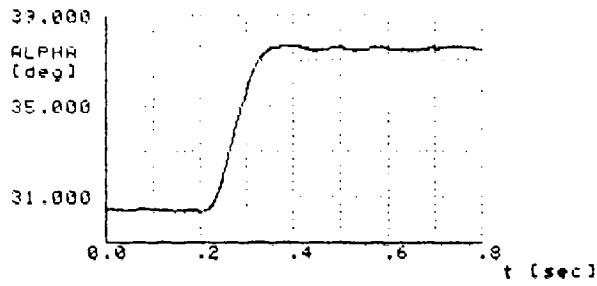




HALF (1-COS) INPUT NOSE UP

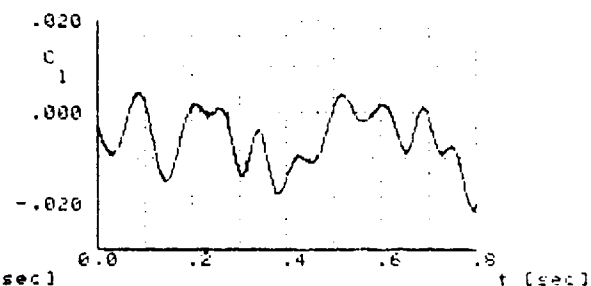
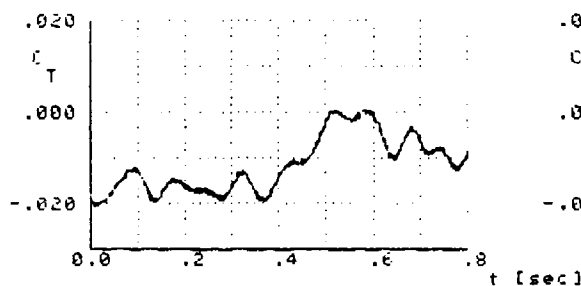
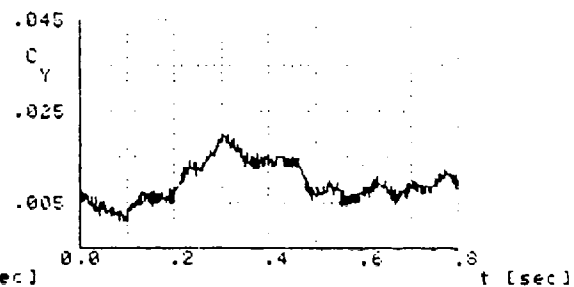
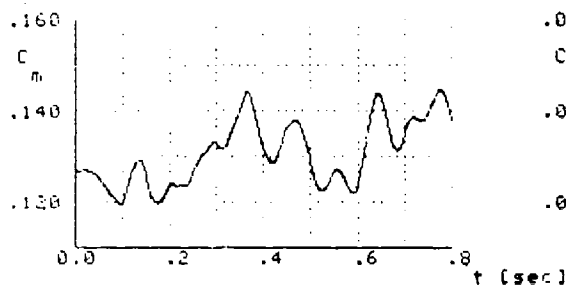
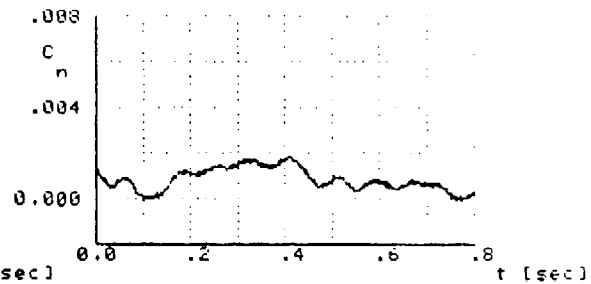
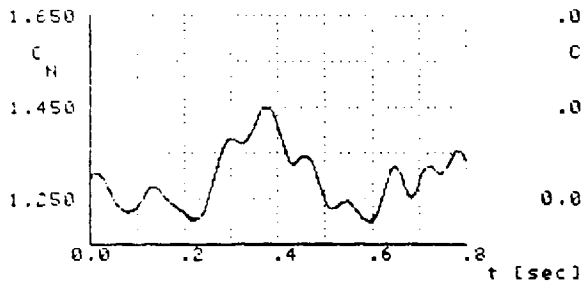
RUN = 3076
ALPHA₀ = 32 deg
ΔALPHA₀ = 8 deg
T/2 = 167 msec

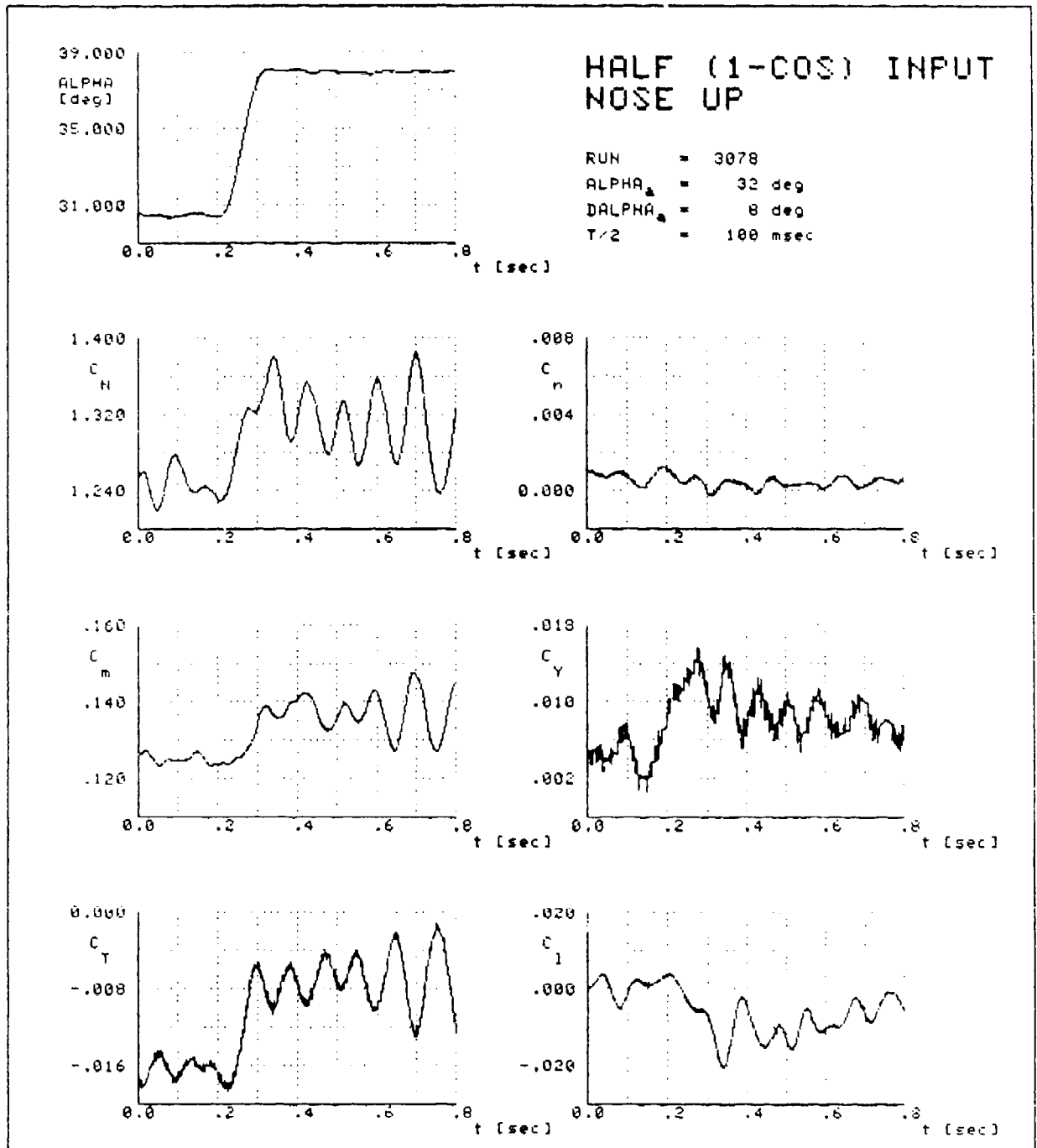


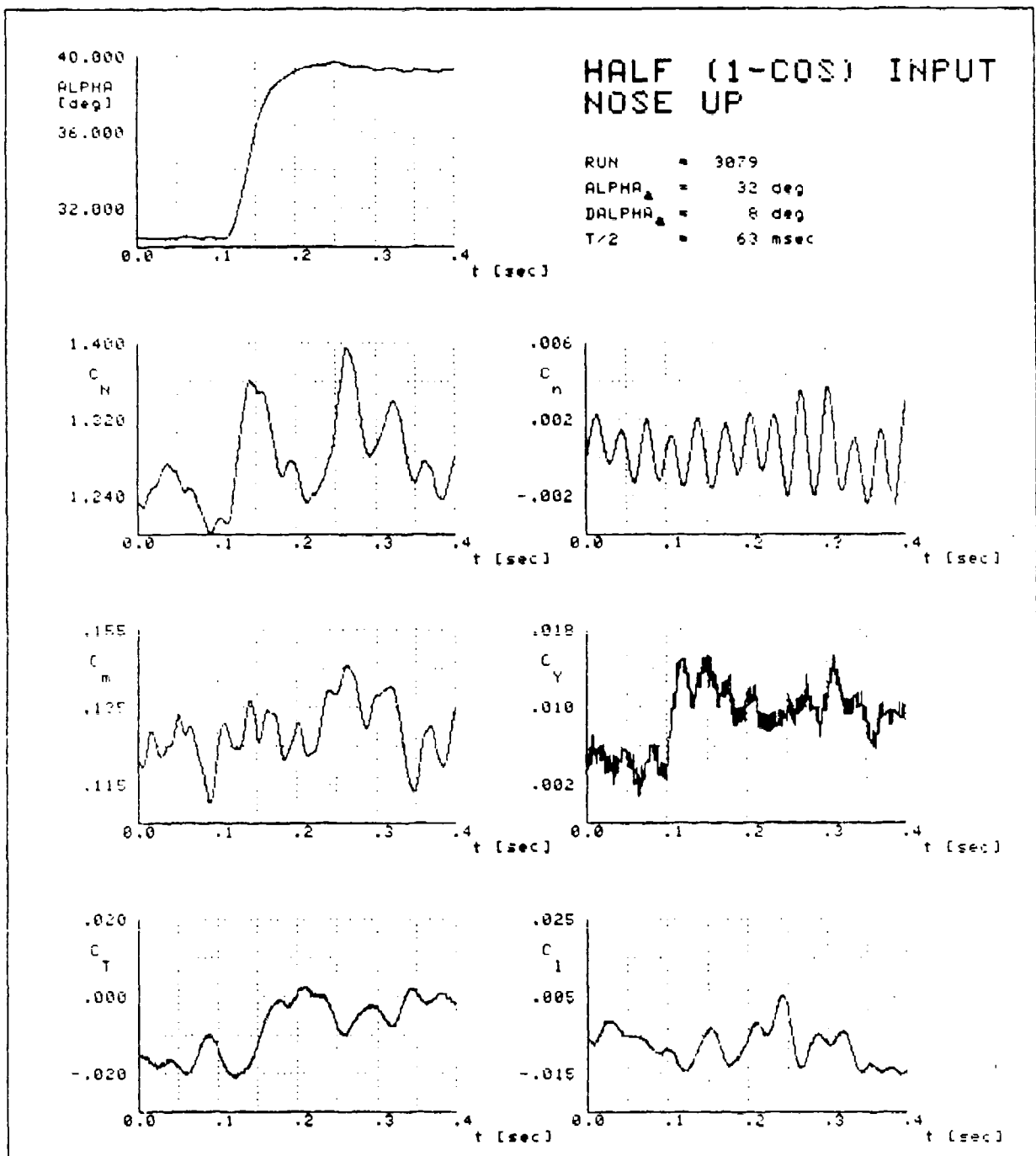


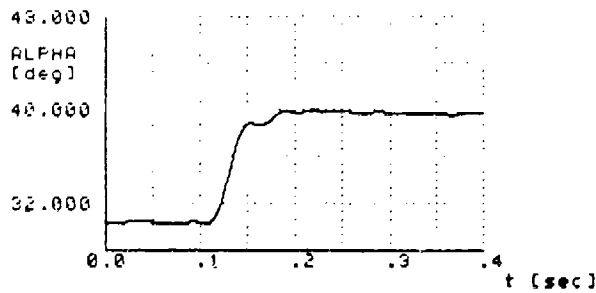
HALF (1-COS) INPUT
NOISE UP

RUN = 3077
ALPHA₀ = 32 deg
DALPHA₀ = 8 deg
T/2 = 125 msec



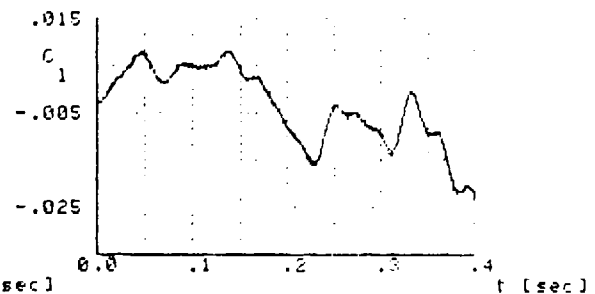
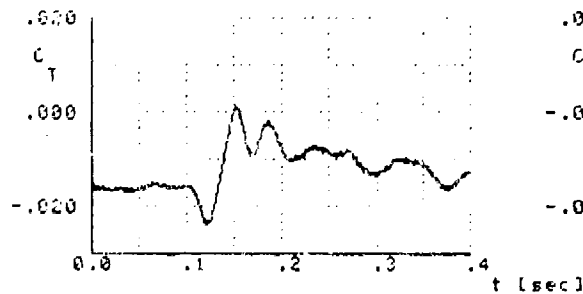
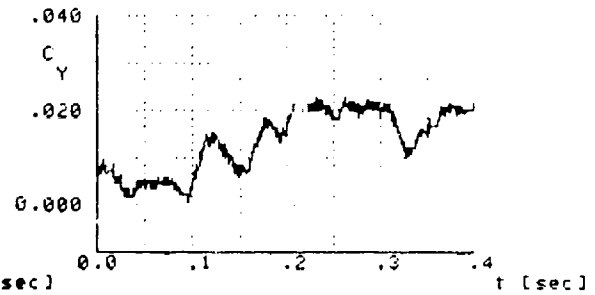
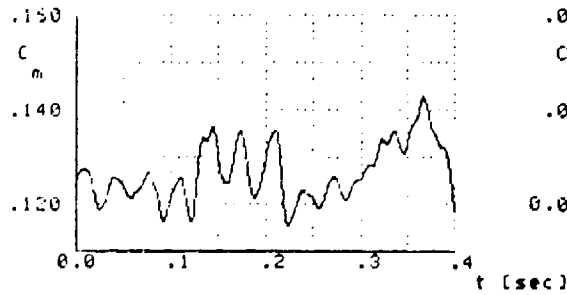
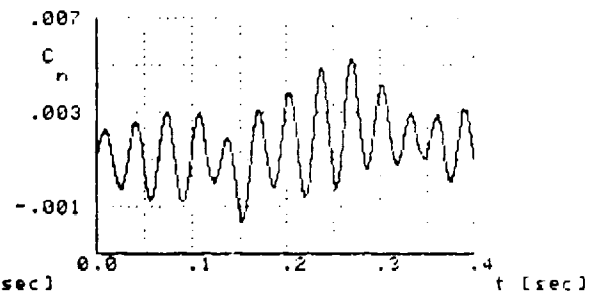
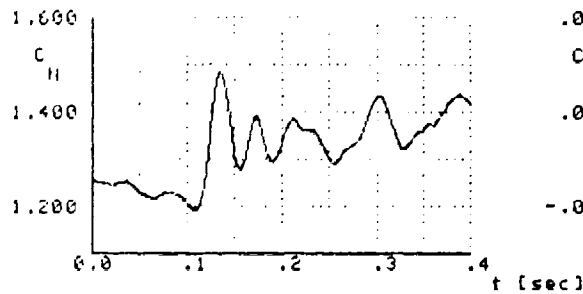


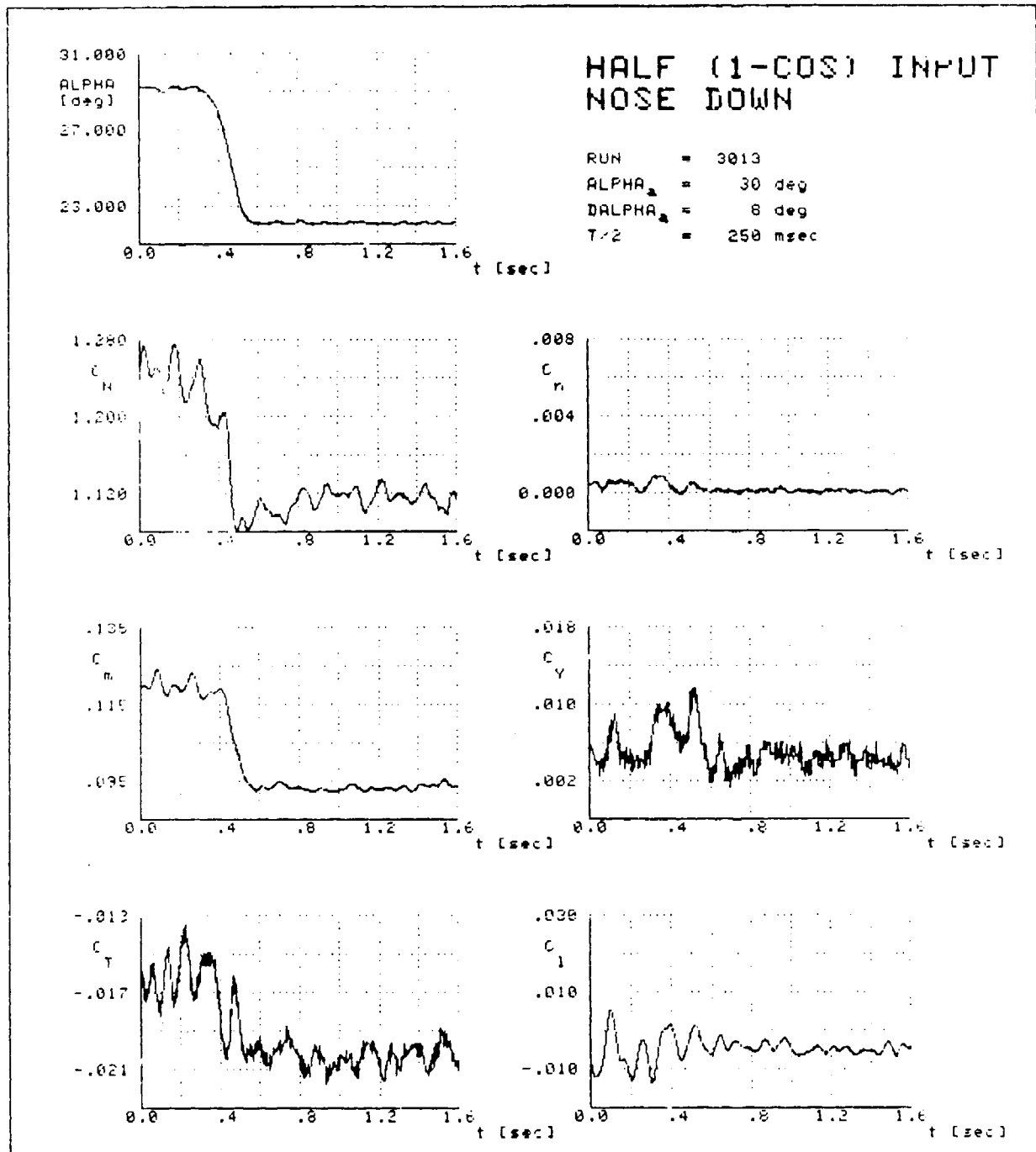


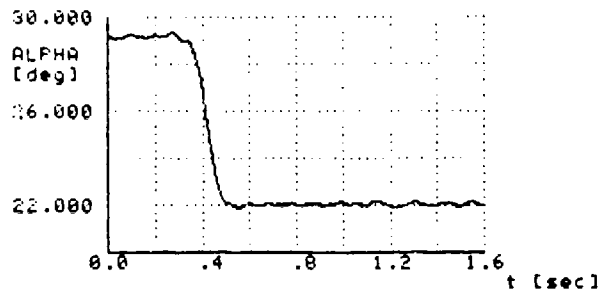


HALF (1-COS) INPUT
NOSE UP

RUN = 3060
ALPHA_a = 32 deg
DALPHA_a = 8 deg
T/2 = 42 msec

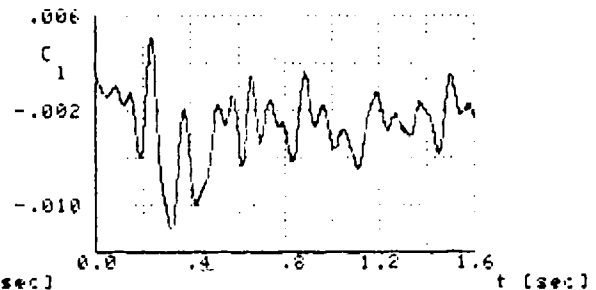
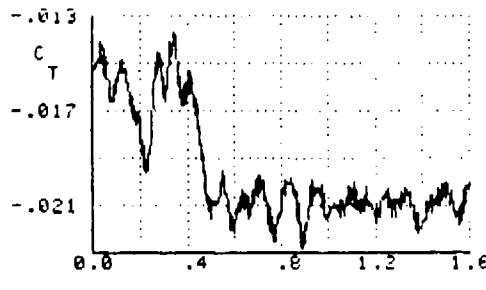
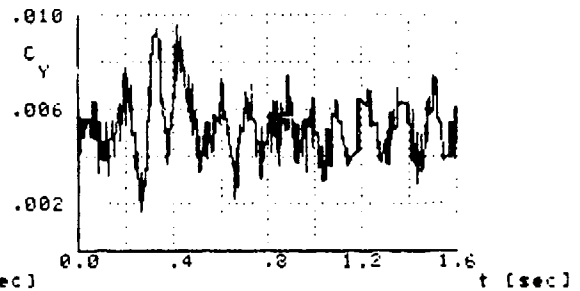
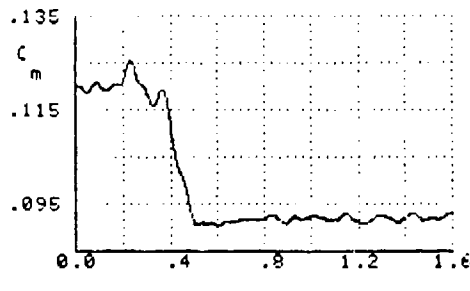
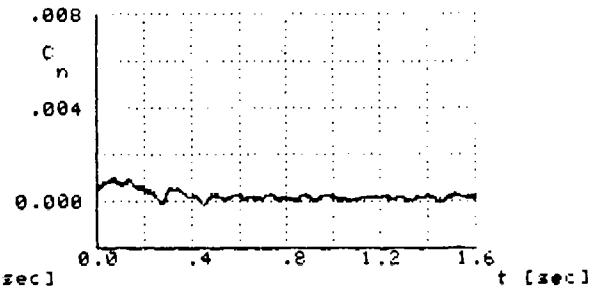
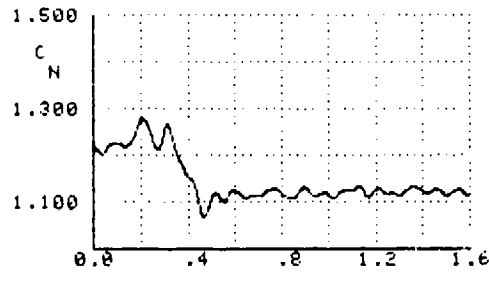


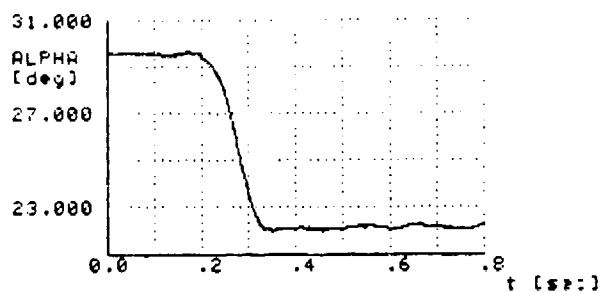




HALF (1-COS) INPUT NOSE DOWN

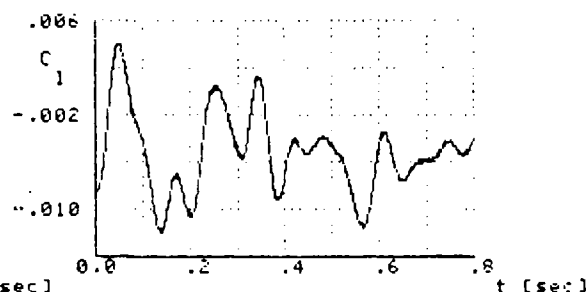
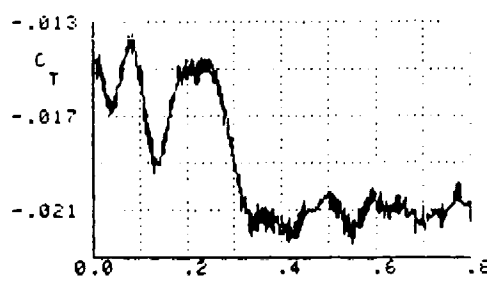
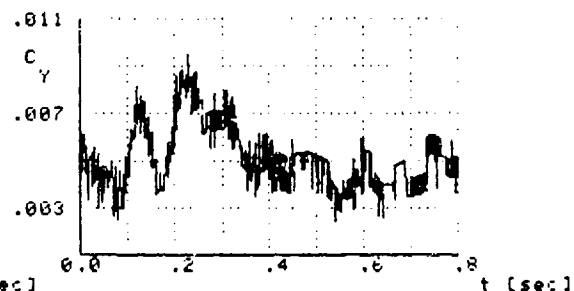
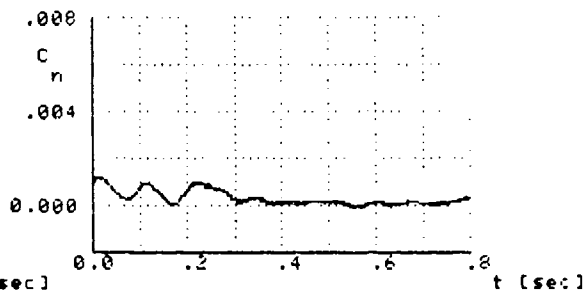
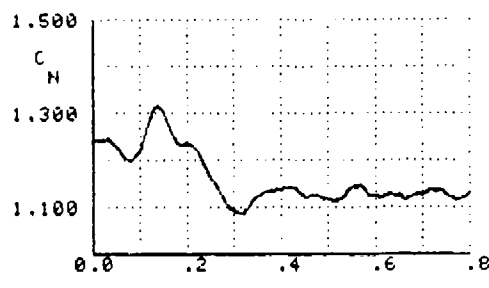
RUN = 3014
ALPHA_a = 30 deg
DALPHA_a = 8 deg
T/2 = 167 msec

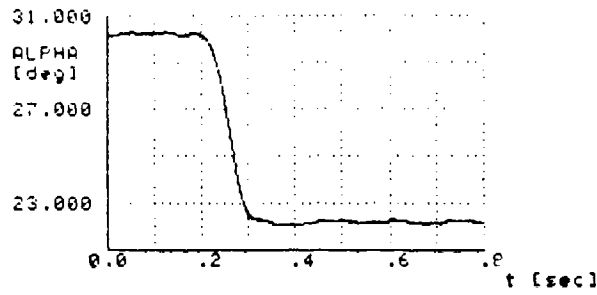




HALF (1-COS) INPUT NOISE DOWN

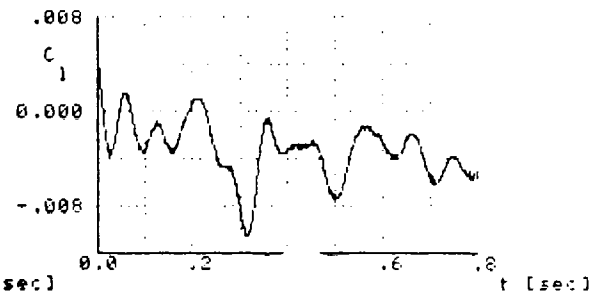
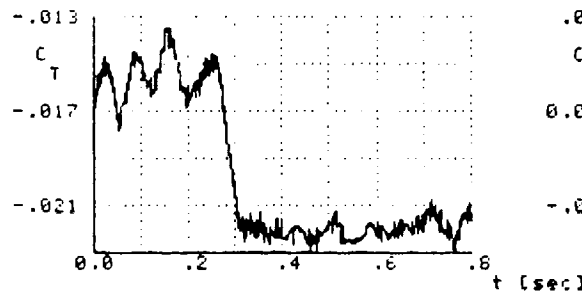
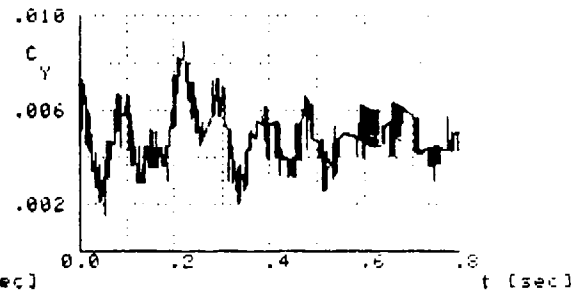
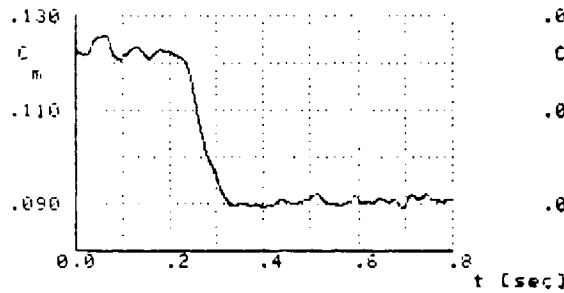
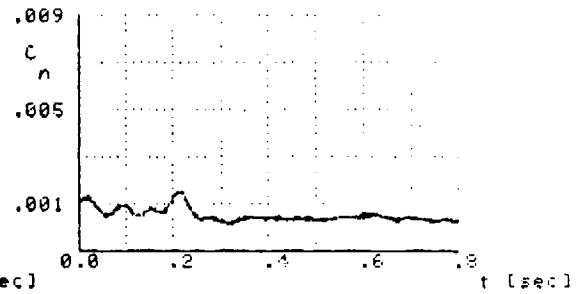
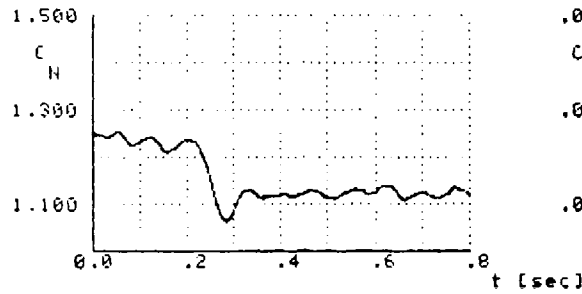
RUN = 3015
ALPHA_a = 30 deg
DALPHA_a = 8 deg
T/2 = 125 msec

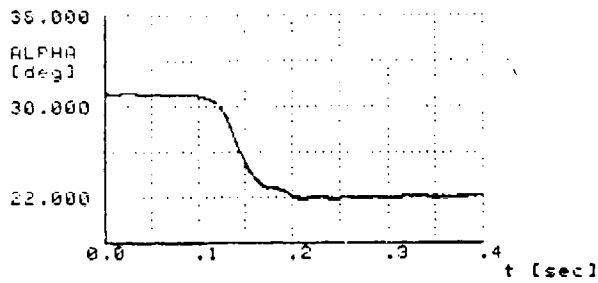




HALF (1-COS) INPUT
NOSE DOWN

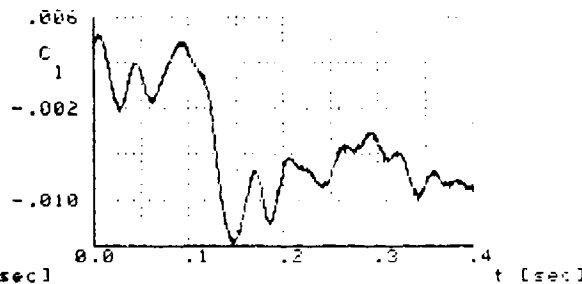
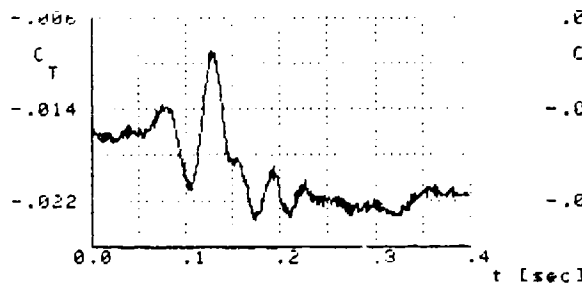
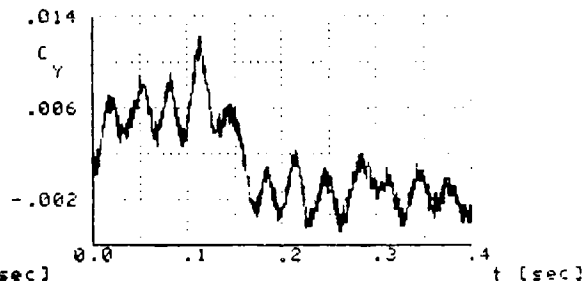
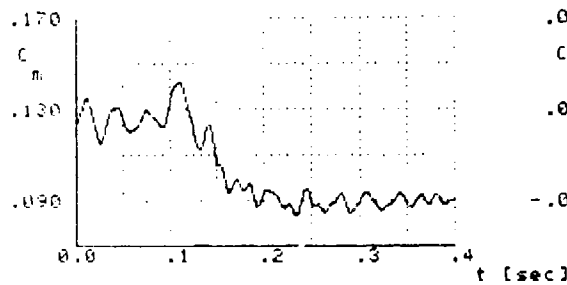
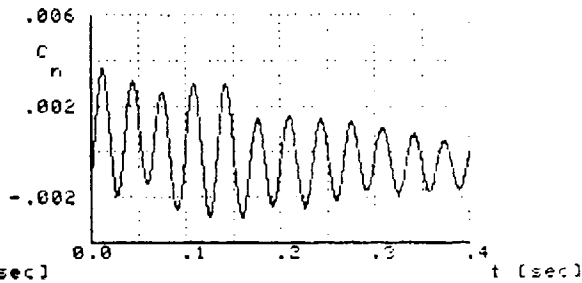
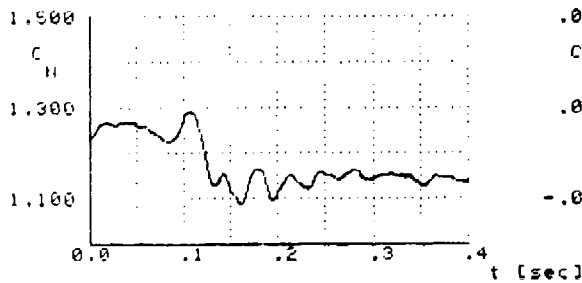
RUN = 3016
ALPHA_a = 30 deg
DALPHA_a = 8 deg
T/2 = 100 msec

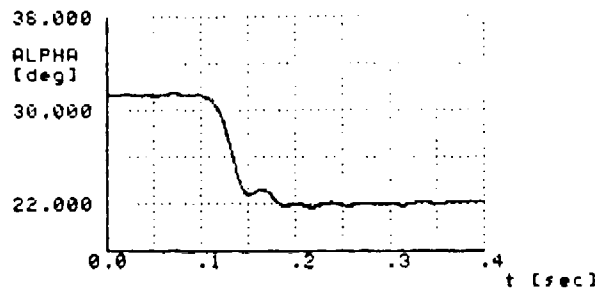




HALF (1-COS) INPUT NOSE DOWN

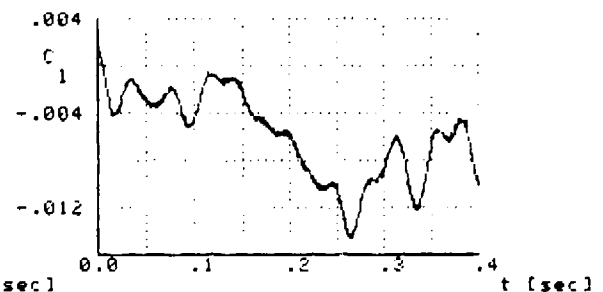
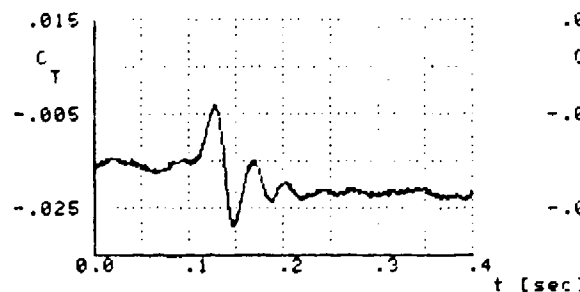
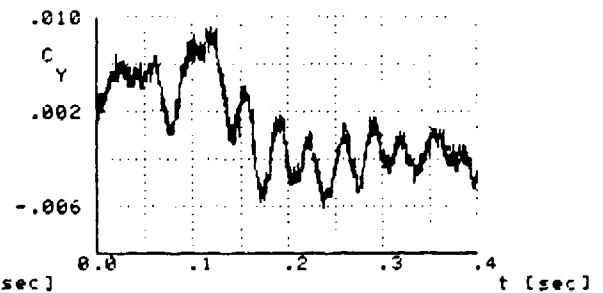
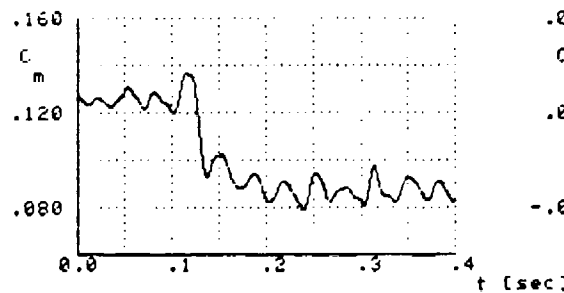
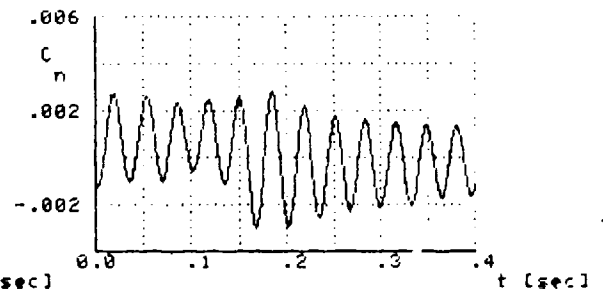
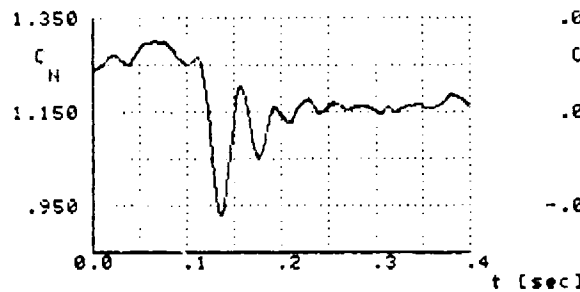
RUN = 3017
 ALPHA_a = 30 deg
 DRALPHA_a = 8 deg
 T/2 = 63 msec

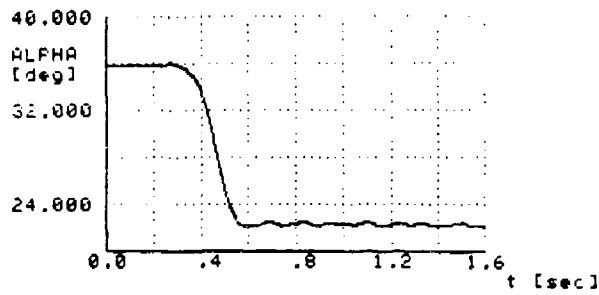




HALF (1-COS) INPUT NOSE DOWN

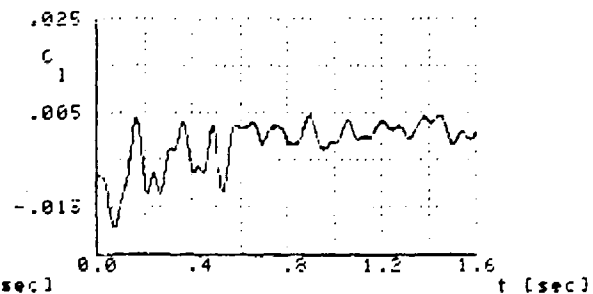
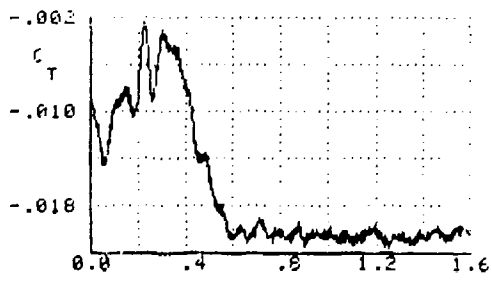
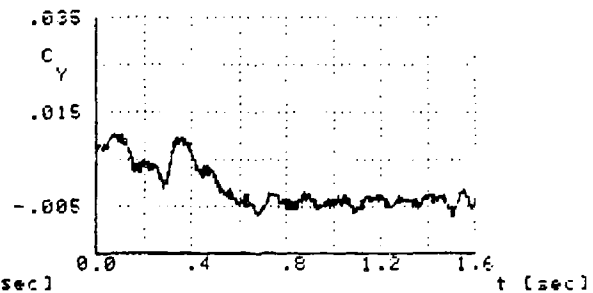
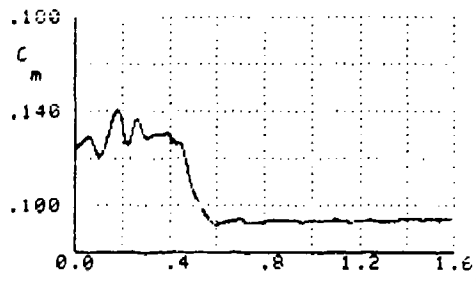
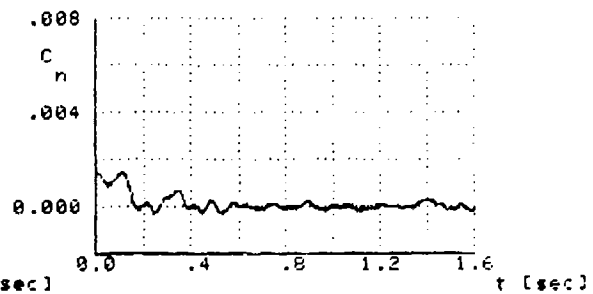
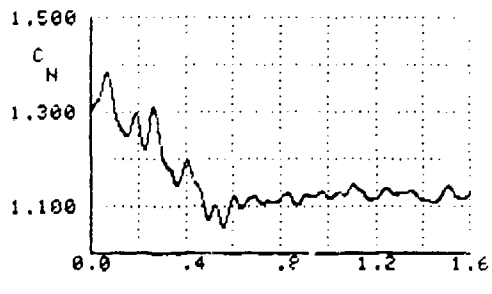
RUN = 3018
 α_a = 30 deg
 $\Delta\alpha_a$ = 8 deg
 $T/2$ = 42 msec

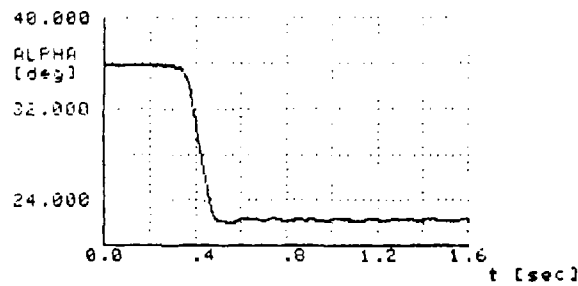




HALF (1-COS) INPUT NOSE DOWN

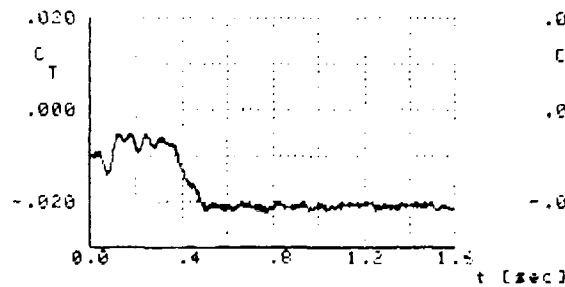
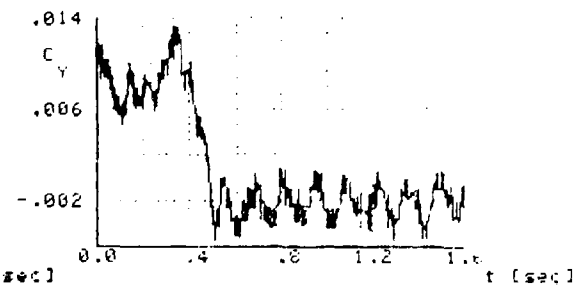
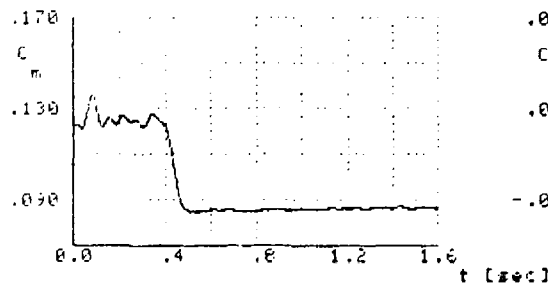
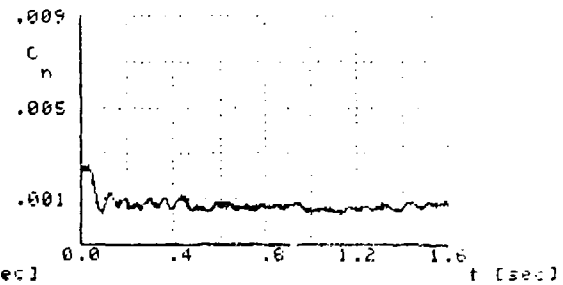
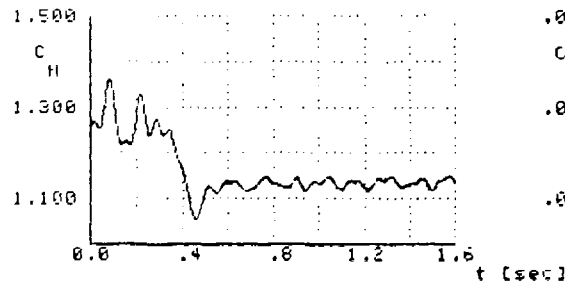
RUN = 3019
ALPHA₀ = 38 deg
DALPHA₀ = 16 deg
T/2 = 250 msec

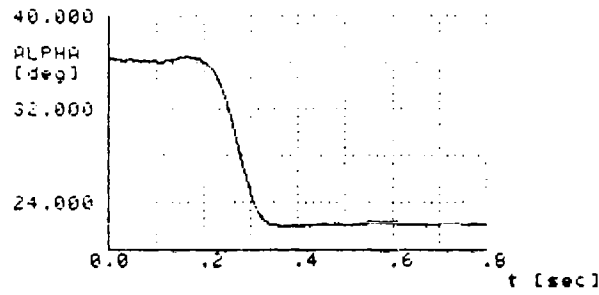




HALF (1-COS) INPUT NOSE DOWN

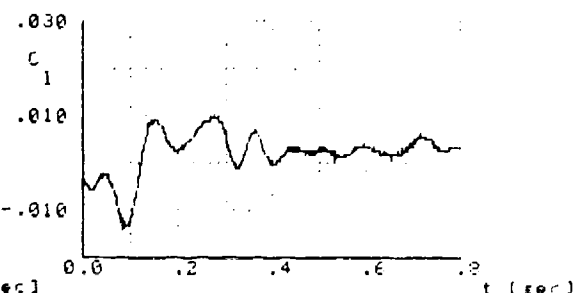
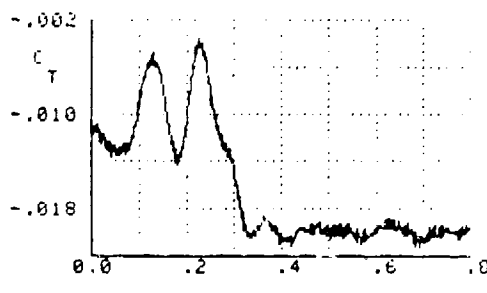
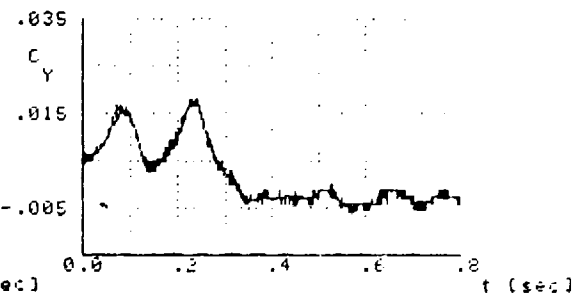
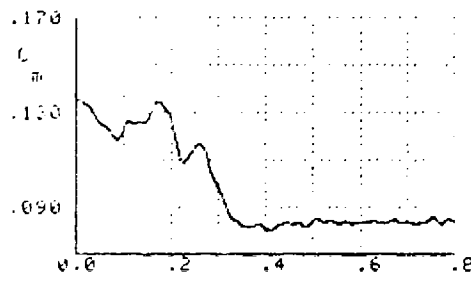
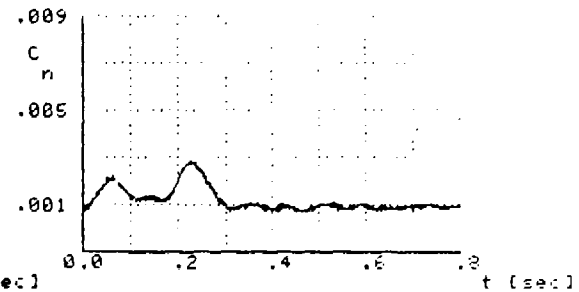
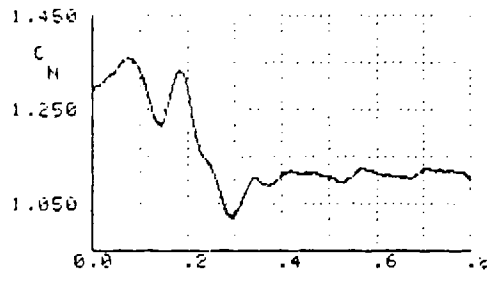
RUN = 3030
 ALPHA_a = 33 deg
 D_{ALPHA} = 16 deg
 T/2 = 167 msec

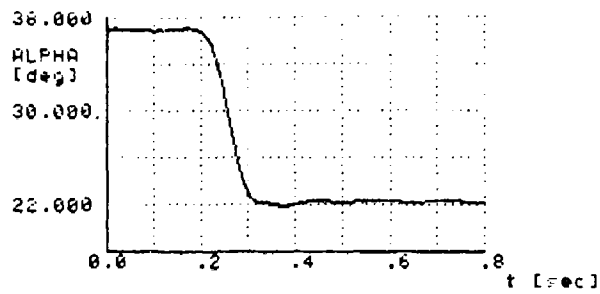




HALF (1-COS) INPUT NOSE DOWN

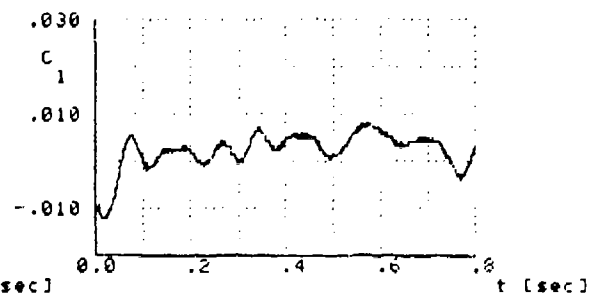
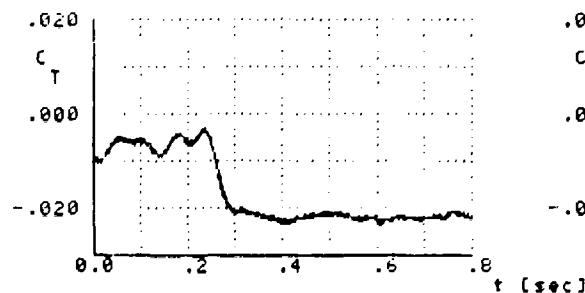
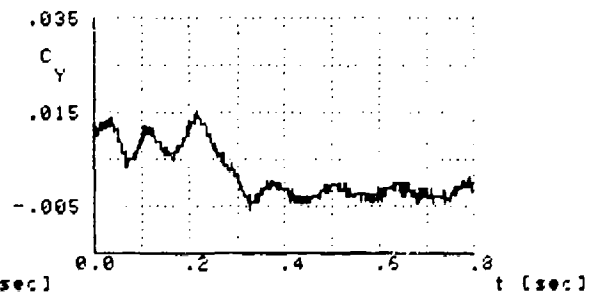
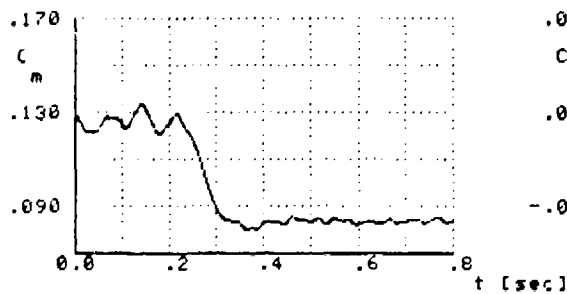
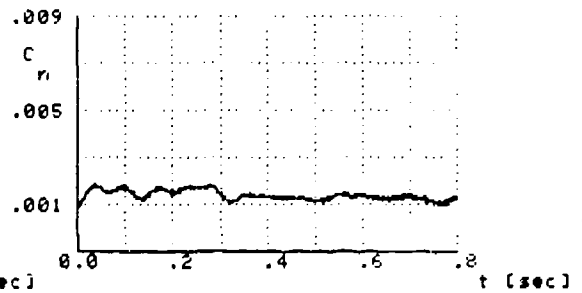
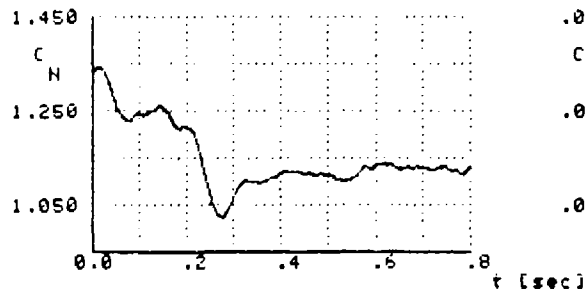
RUN = 3021
 ALPHA₀ = 38 deg
 ΔALPHA₀ = 16 deg
 T/2 = 125 msec

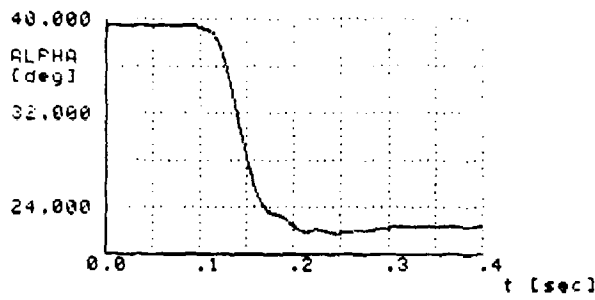




HALF (1-COS) INPUT NOISE DOWN

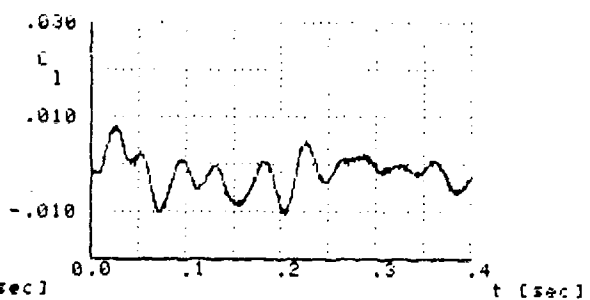
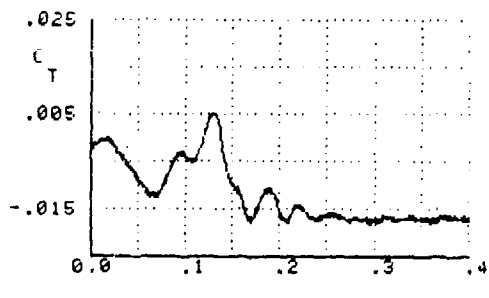
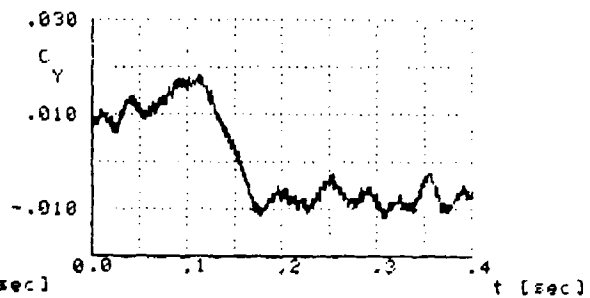
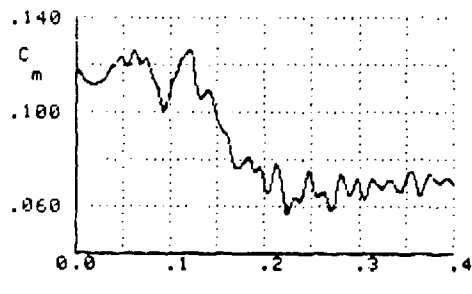
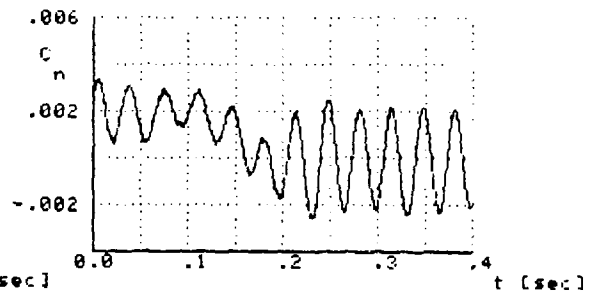
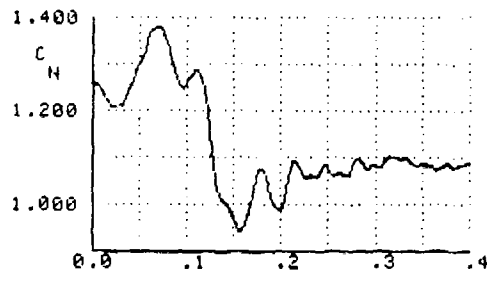
RUN = 3022
 ALPHA_a = 38 deg
 DALPHA_a = 16 deg
 T/2 = 100 msec

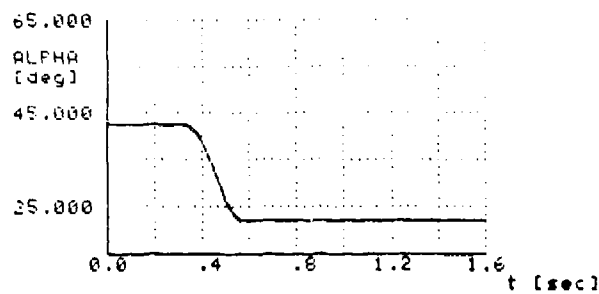




HALF (1-COS) INPUT NOSE DOWN

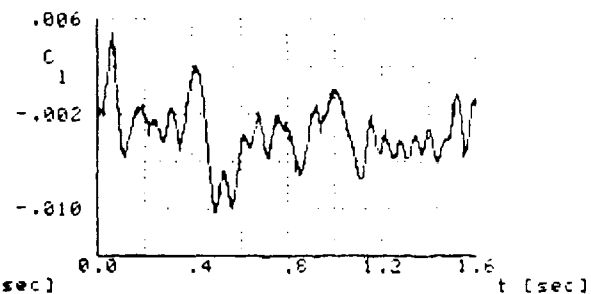
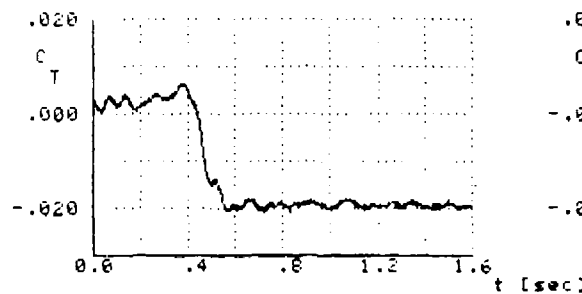
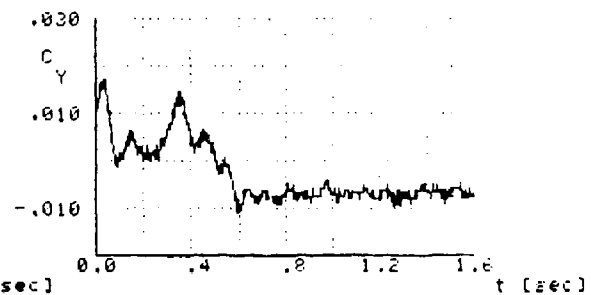
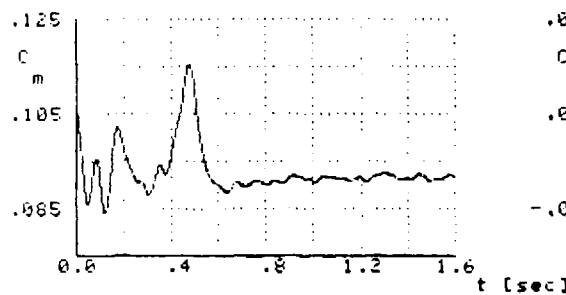
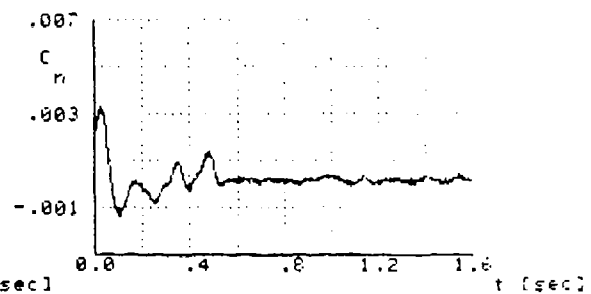
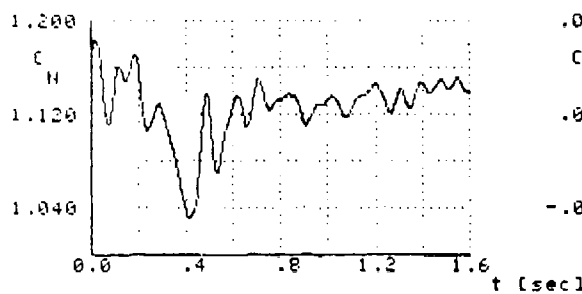
RUN = 3023
 ALPHA_a = 38 deg
 DALPHA_a = 16 deg
 T/2 = 63 msec

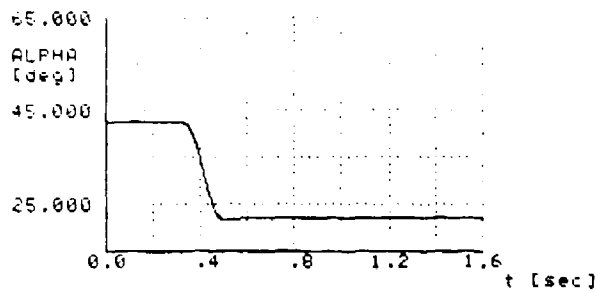




HALF (1-COS) INPUT NOSE DOWN

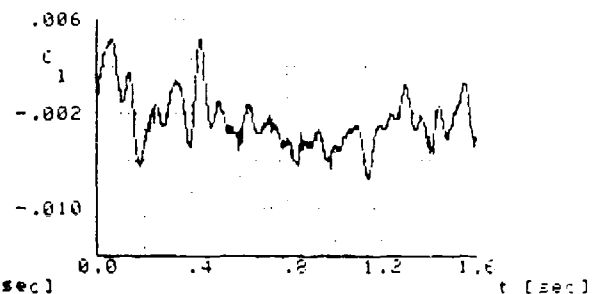
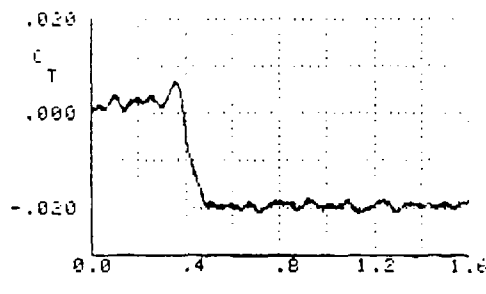
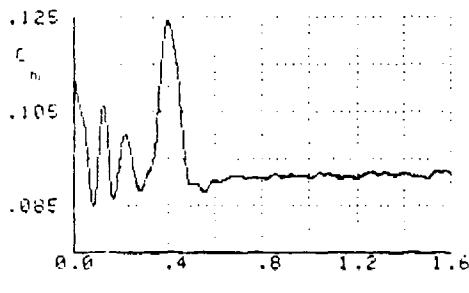
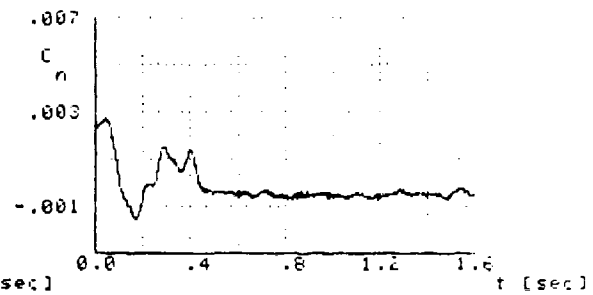
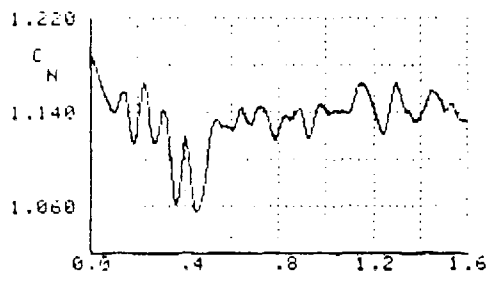
RUN = 3024
 ALPHA = 45 deg
 DRALPHA = 24 deg
 T/2 = 250 msec

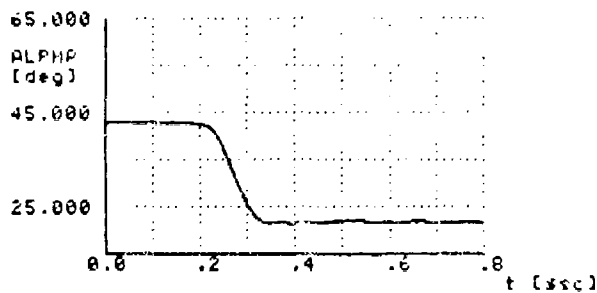




HALF (1-COS) INPUT NOSE DOWN

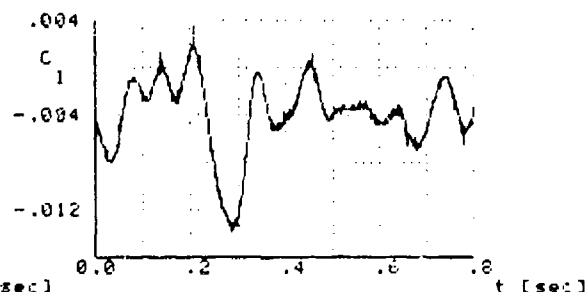
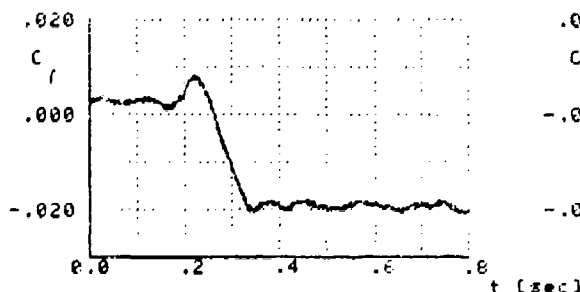
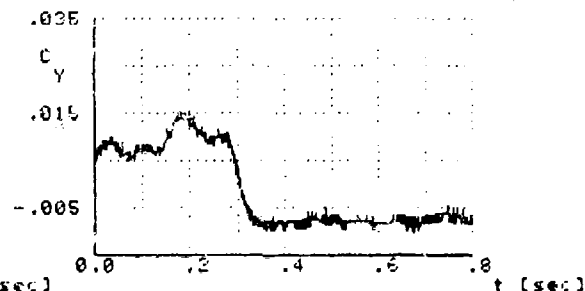
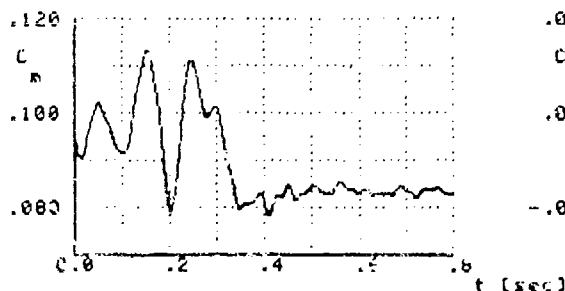
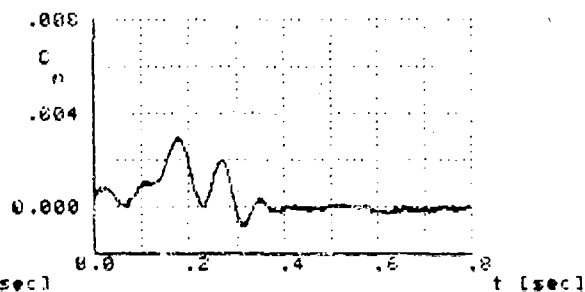
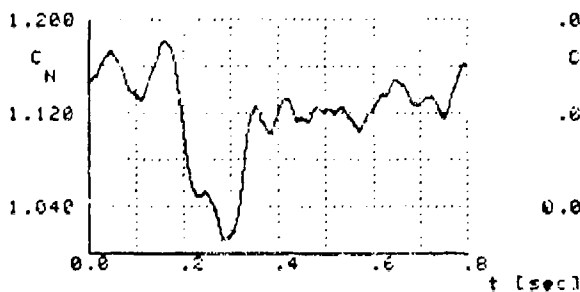
RUN = 3025
 $\text{ALPHA}_a = 46 \text{ deg}$
 $\text{DALPHA}_a = 24 \text{ deg}$
 $T/2 = 167 \text{ msec}$

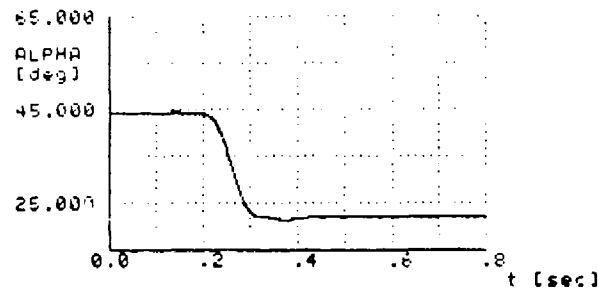




HALF (1-COS) INPUT NOISE DOWN

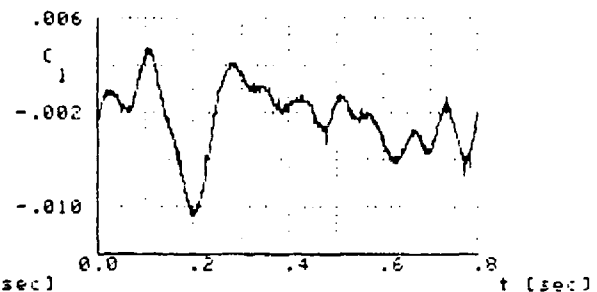
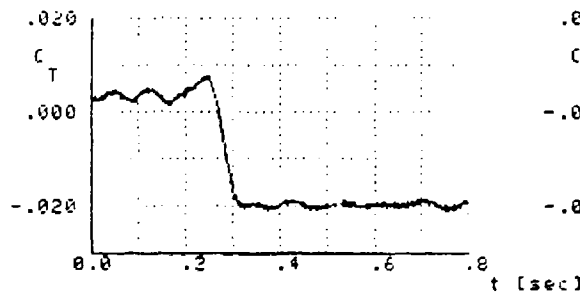
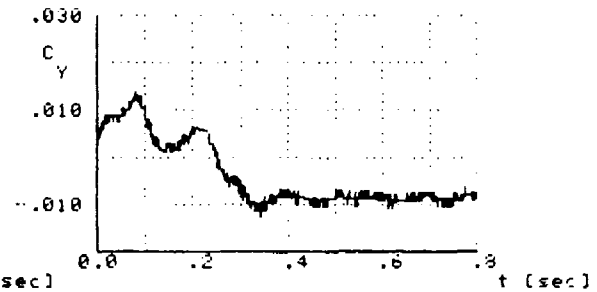
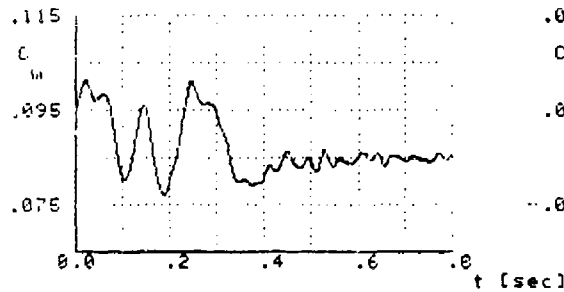
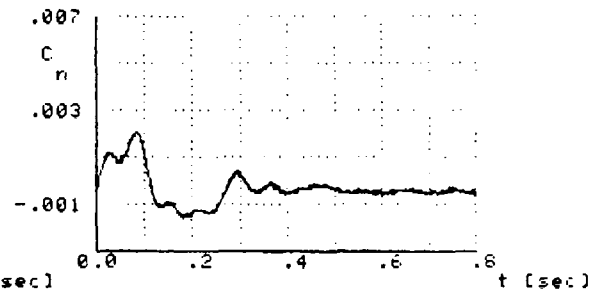
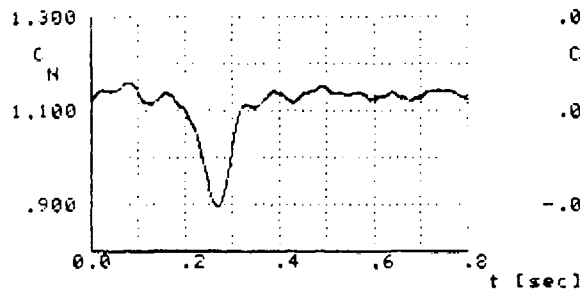
RUN = 3626
 $\text{ALPHA}_a = 40 \text{ deg}$
 $\text{BALPHA}_a = 20 \text{ deg}$
 $T/2 = 125 \text{ msec}$

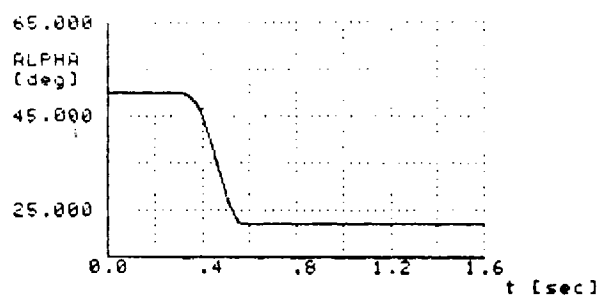




HALF (1-COS) INPUT NOSE DOWN

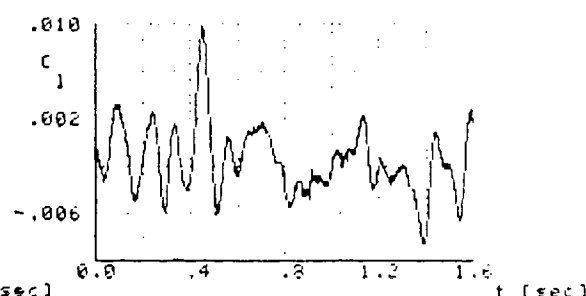
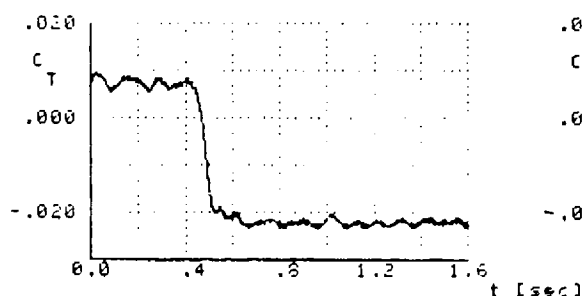
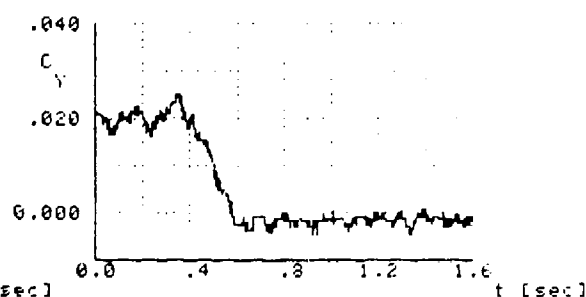
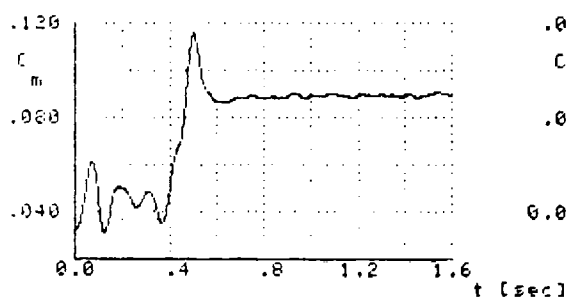
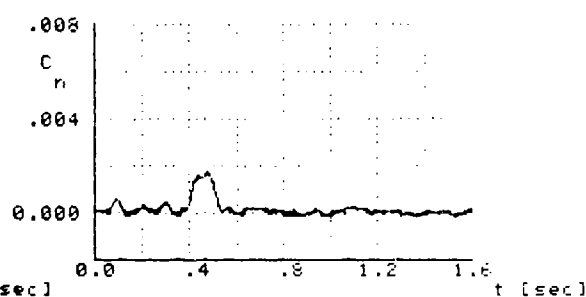
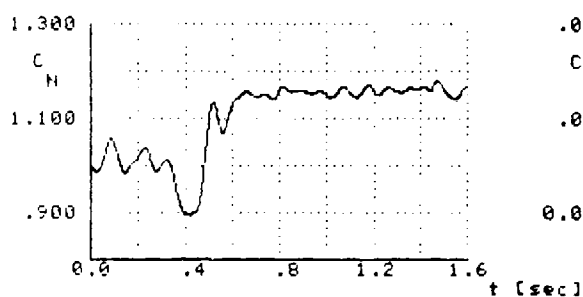
RUN = 3027
 $\text{ALPHA}_a = 46 \text{ deg}$
 $\text{DALPHA}_a = 24 \text{ deg}$
 $T/2 = 100 \text{ msec}$

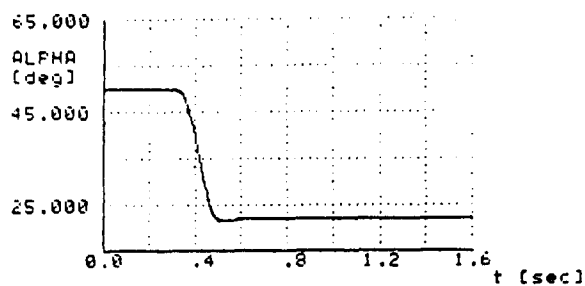




HALF (1-COS) INPUT NOSE DOWN

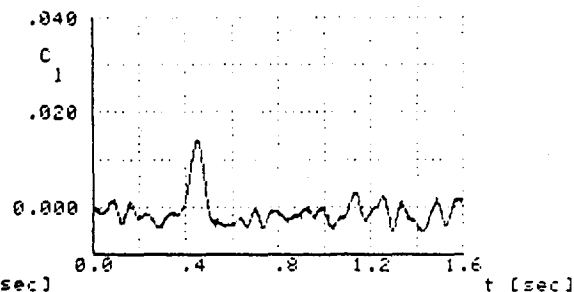
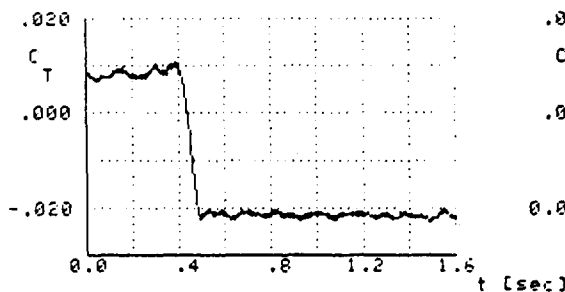
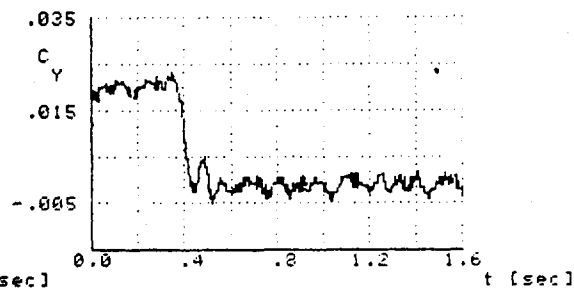
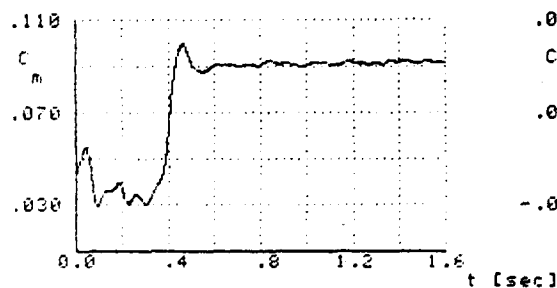
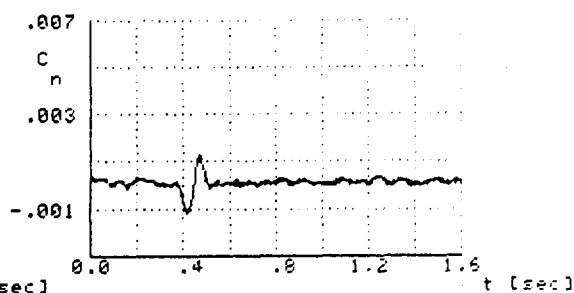
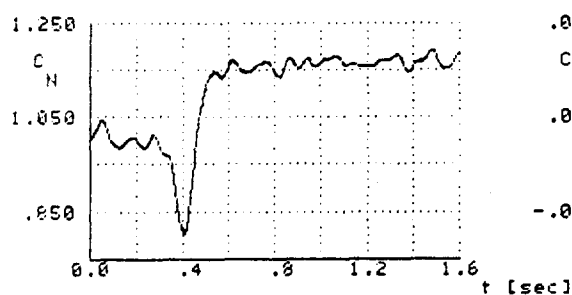
RUN = 3028
 ALPHA_a = 54 deg
 DALPHA_a = 32 deg
 T/2 = 250 msec

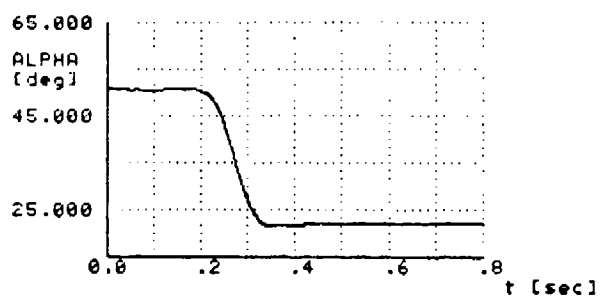




HALF (1-COS) INPUT NOSE DOWN

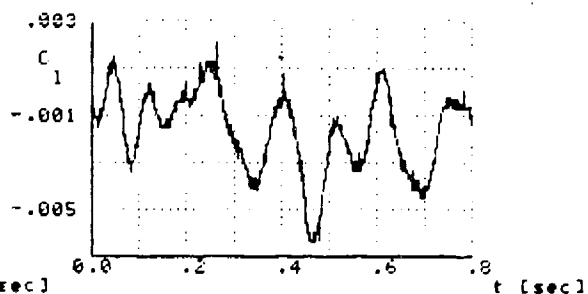
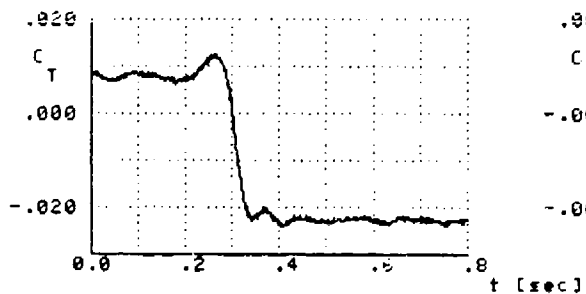
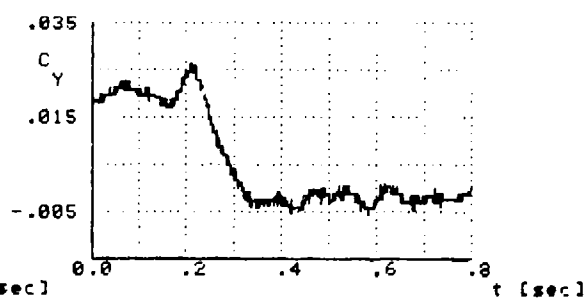
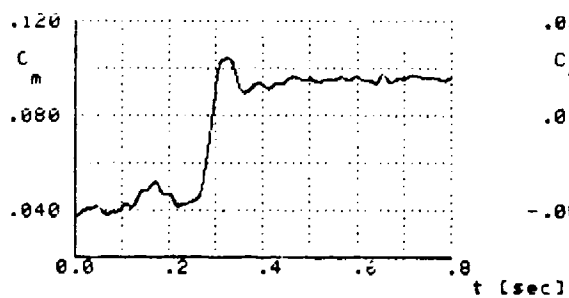
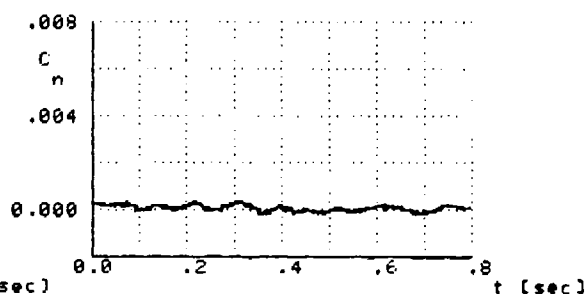
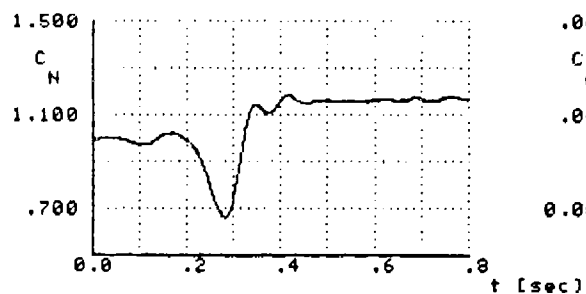
PUN = 3029
 ALPHA_a = 54 deg
 DALPHA_a = 32 deg
 T/2 = 167 msec

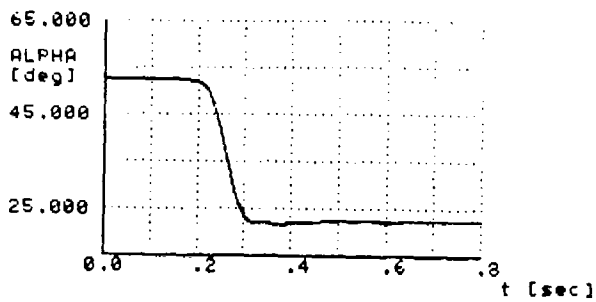




HALF (1-COS) INPUT NOSE DOWN

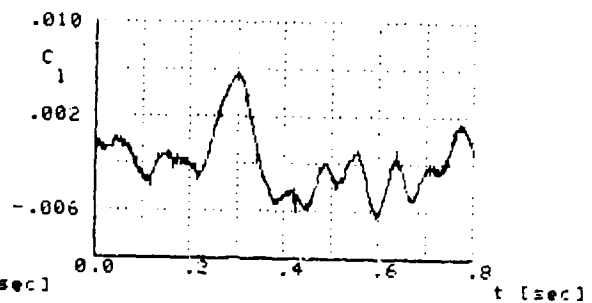
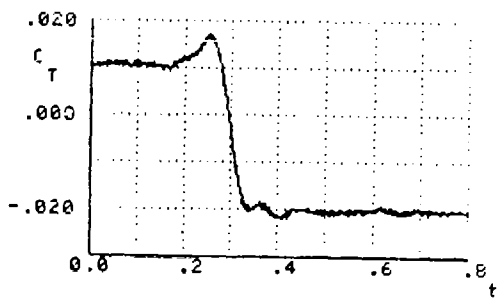
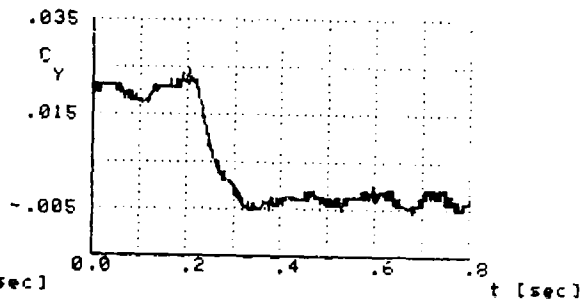
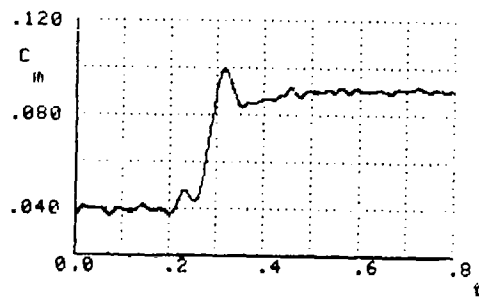
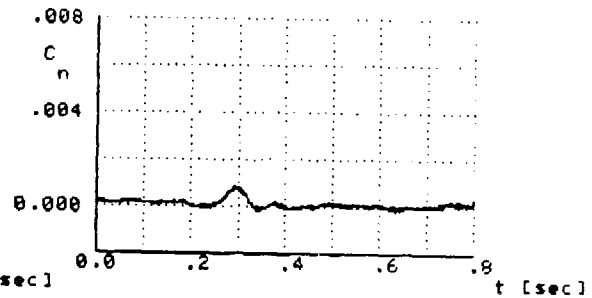
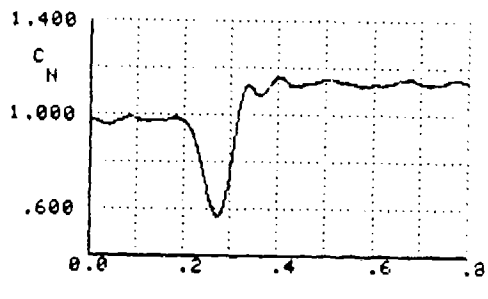
RUN = 3030
ALPHA₁ = 54 deg
DALPHA₂ = 32 deg
T/2 = 125 msec

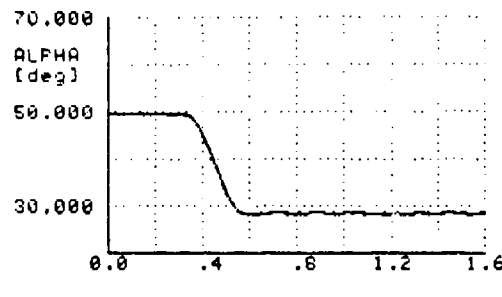




HALF (1-COS) INPUT NOSE DOWN

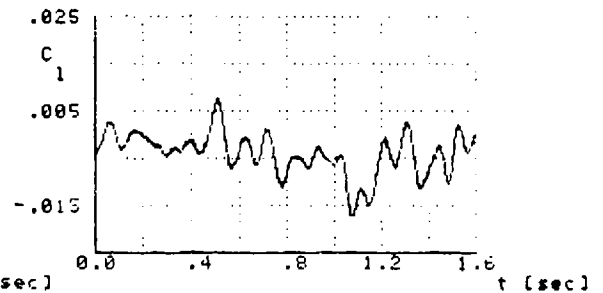
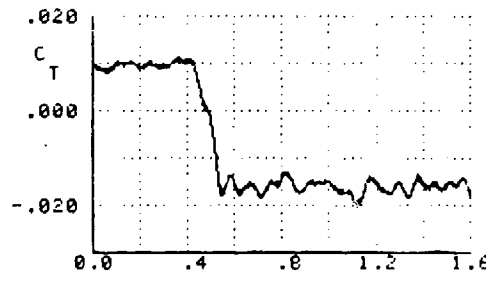
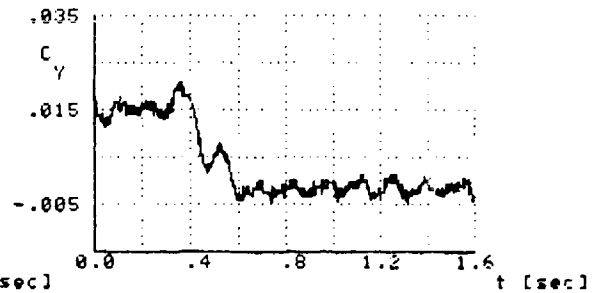
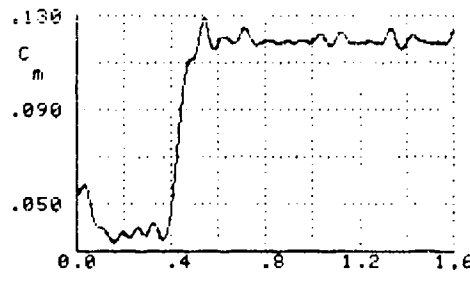
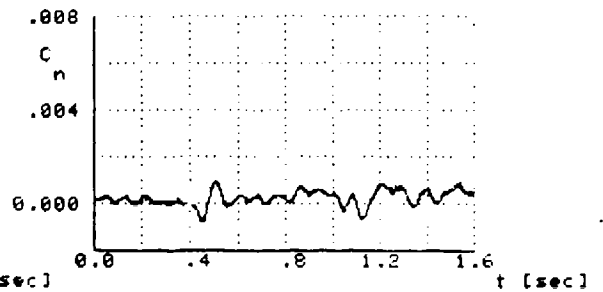
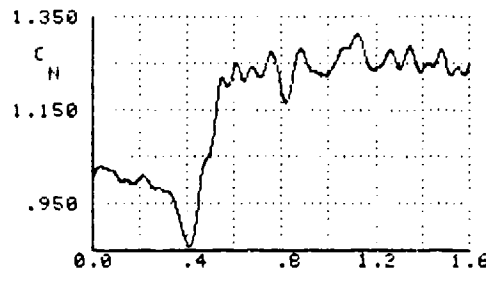
RUN = 3031
ALPHA₀ = 54 deg
DALPHA₀ = 32 deg
T/2 = 100 msec

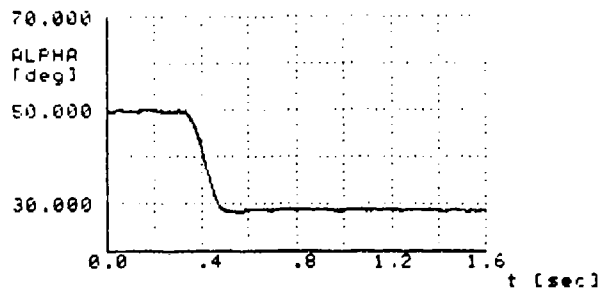




HALF (1-COS) INPUT NOSE DOWN

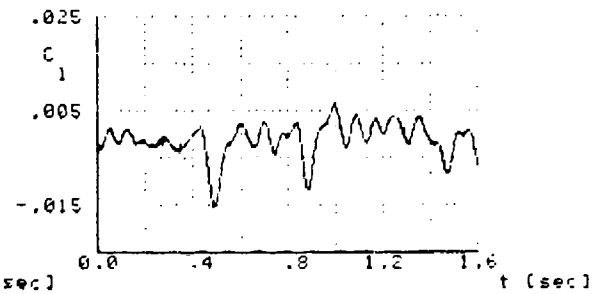
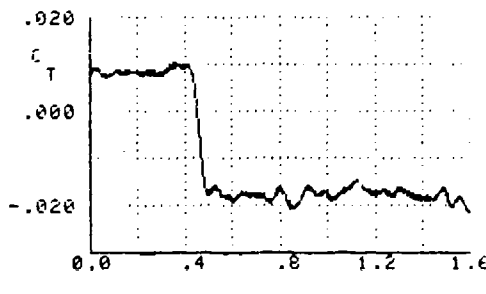
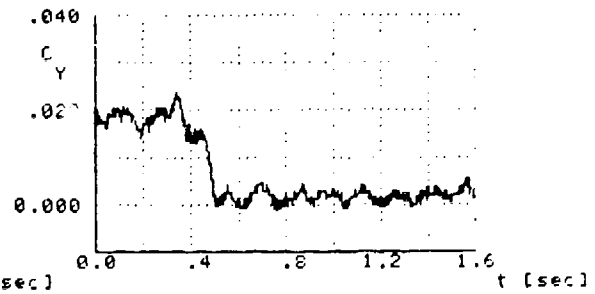
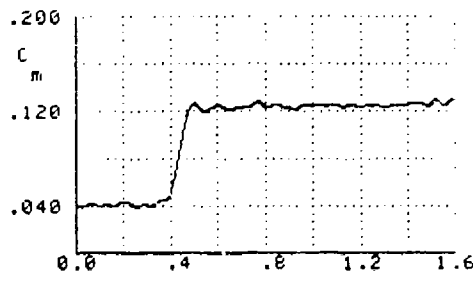
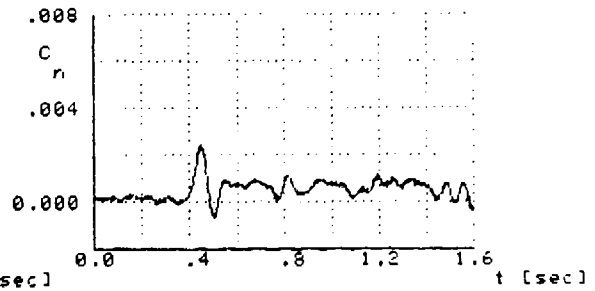
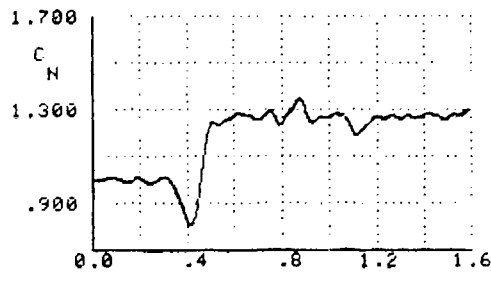
RUN = 3032
 ALPHA_a = 54 deg
 DALPHA_a = 24 deg
 T/2 = 250 msec

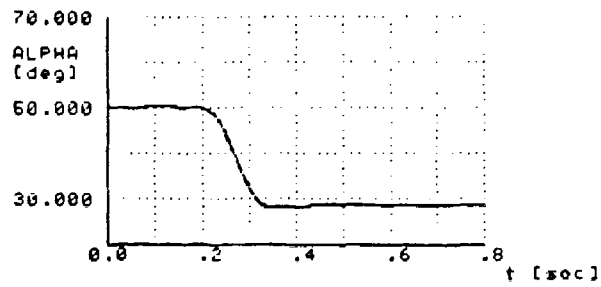




HALF (1-COS) INPUT NOSE DOWN

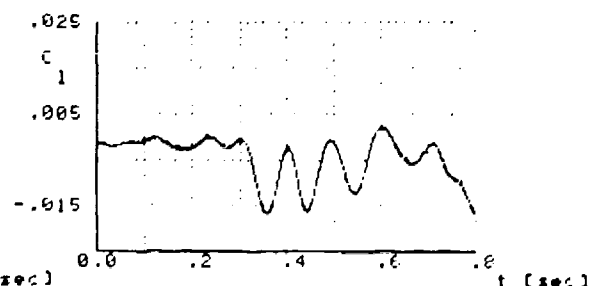
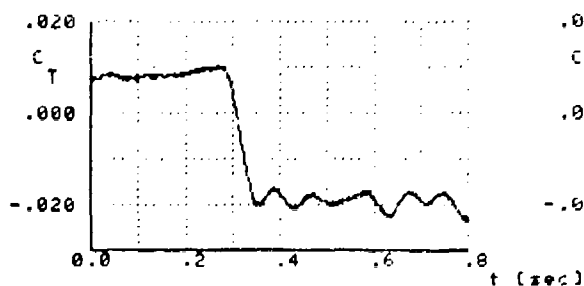
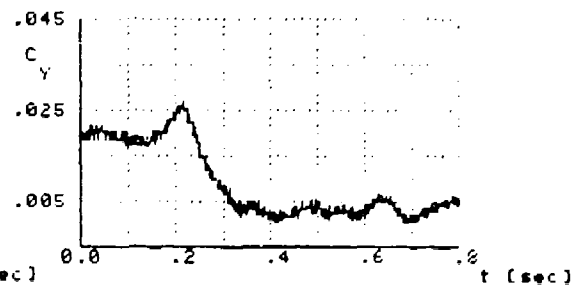
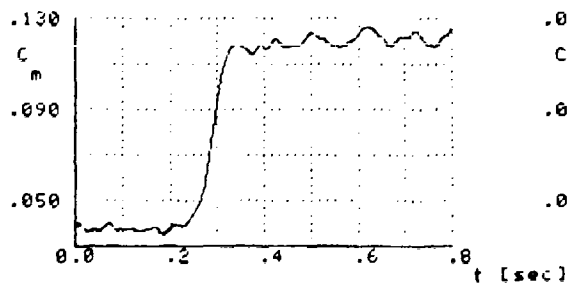
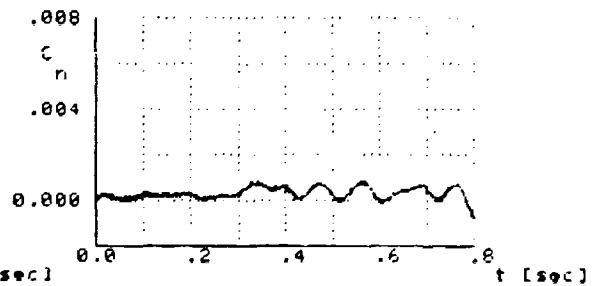
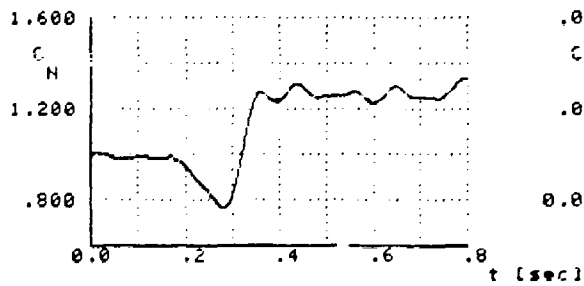
RUN = 3033
 α_a = 54 deg
 $\Delta\alpha_a$ = 24 deg
 $T/2$ = 167 msec

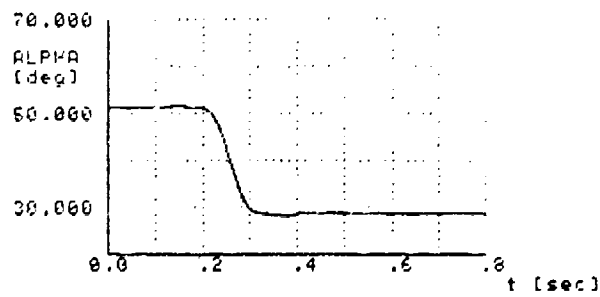




HALF (1-COS) INPUT NOSE DOWN

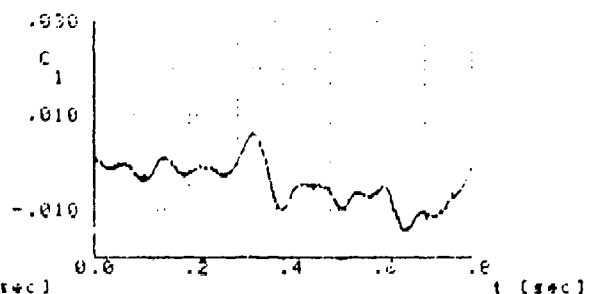
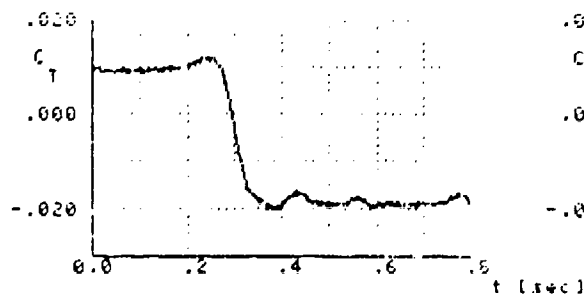
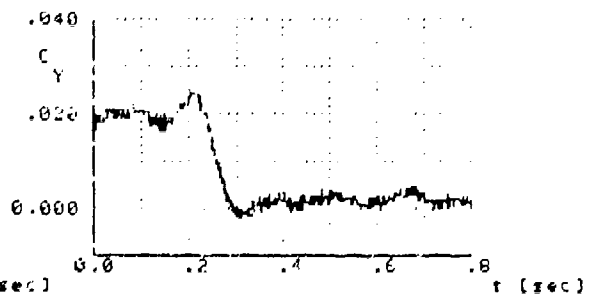
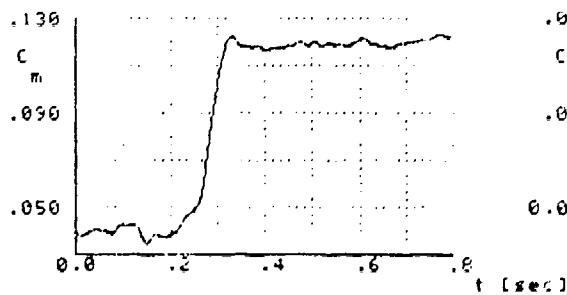
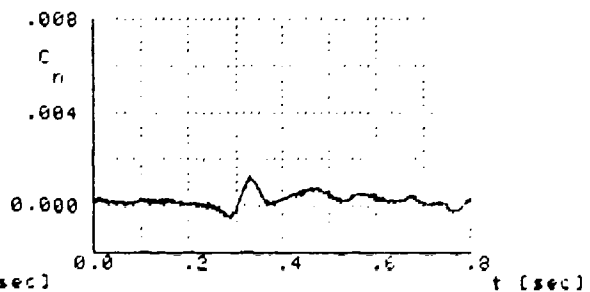
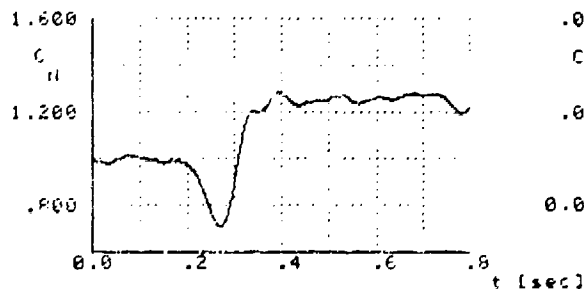
RUN = 3934
 α_a = 54 deg
 $\Delta\alpha_a$ = 24 deg
 $T/2$ = 125 msec

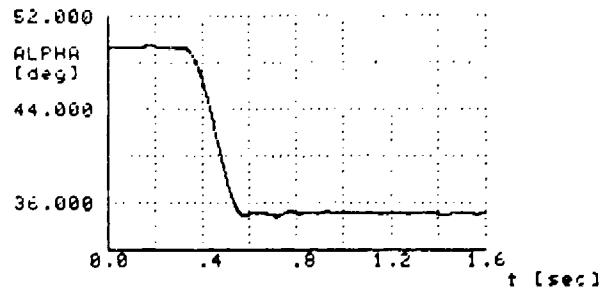




HALF (1-COS) INPUT NOSE DOWN

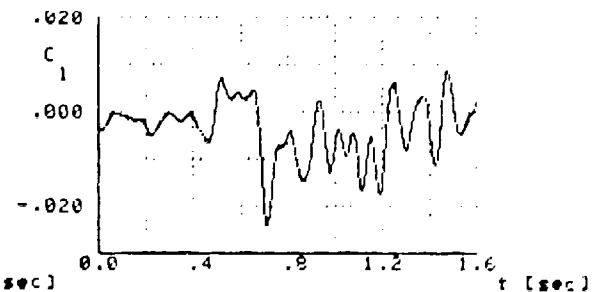
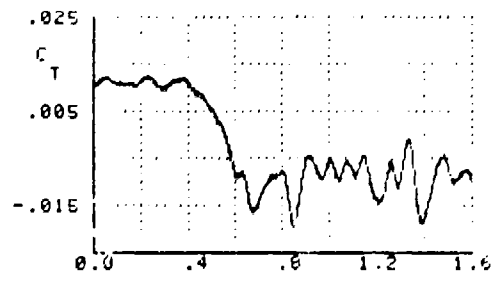
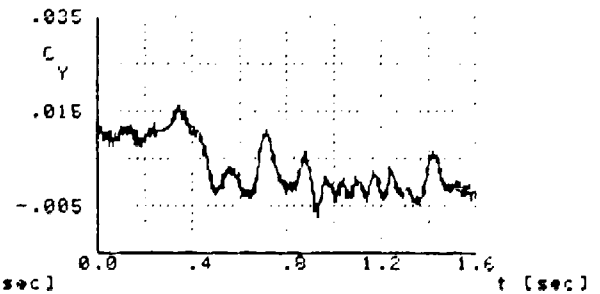
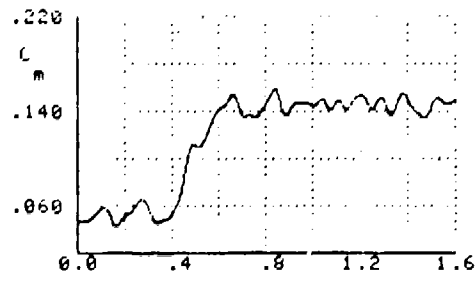
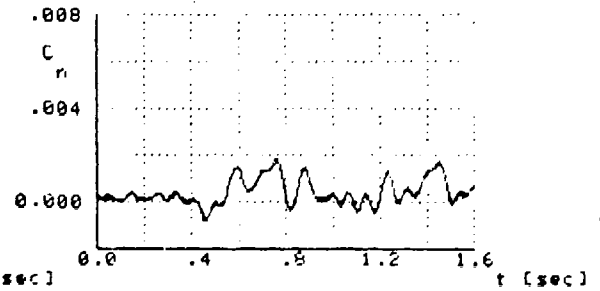
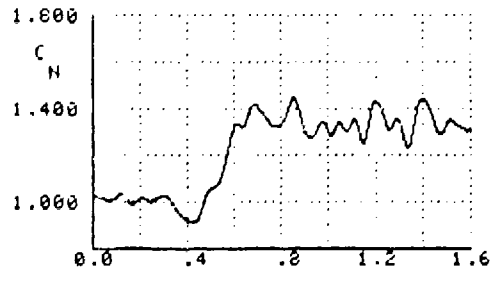
PUN = 3035
 ALPHA₀ = 54 deg
 DALPHA₀ = 24 deg
 T/2 = 100 msec

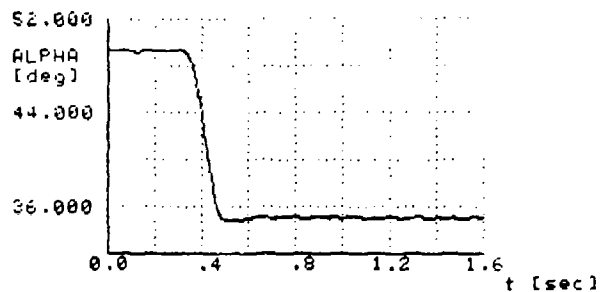




HALF (1-COS) INPUT NOSE DOWN

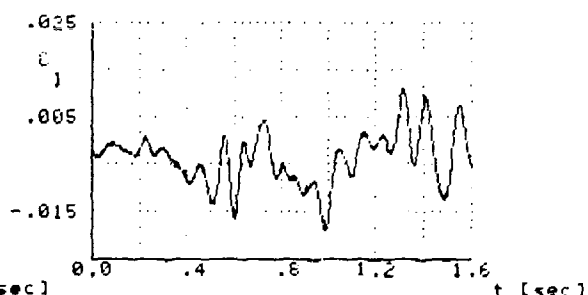
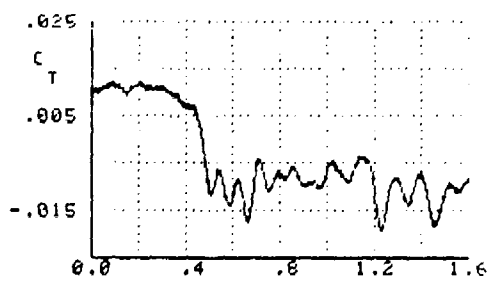
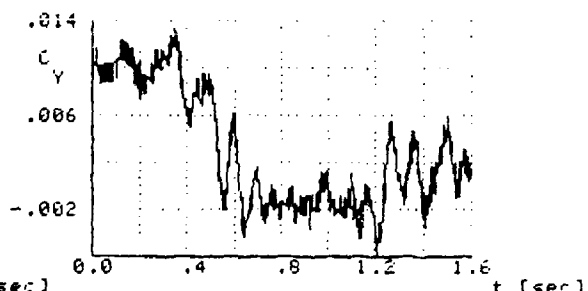
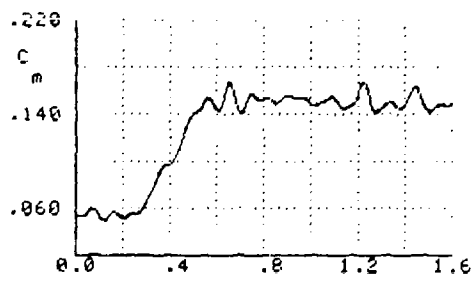
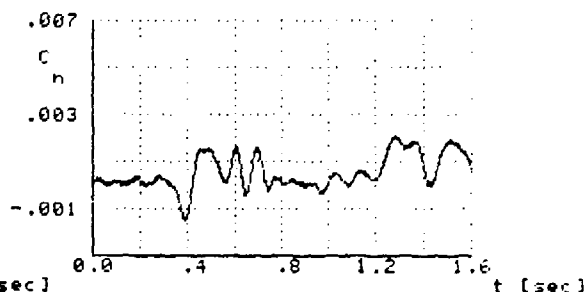
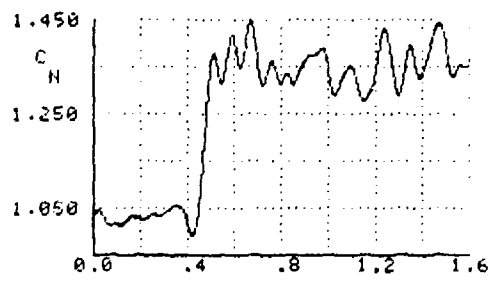
RUN = 3036
ALPHA_a = 54 deg
DALPHA_a = 16 deg
T/2 = 250 msec

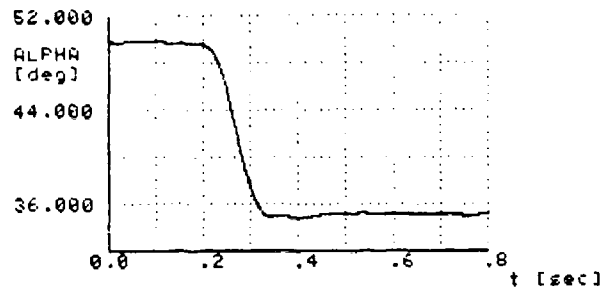




HALF (1-COS) INPUT NOSE DOWN

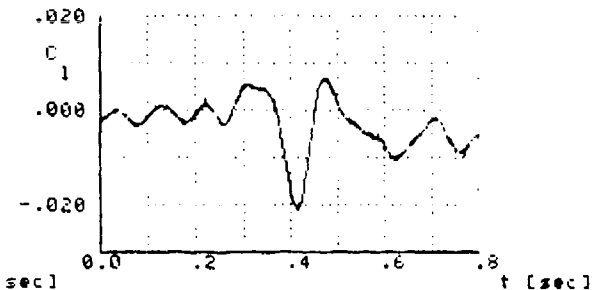
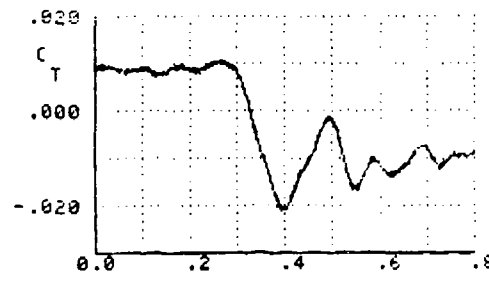
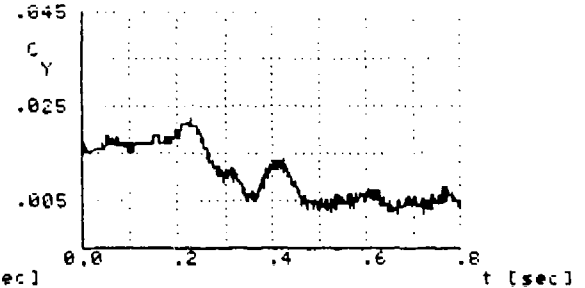
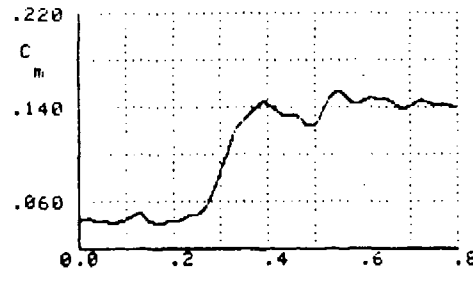
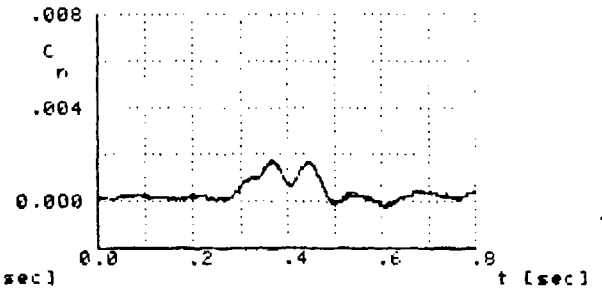
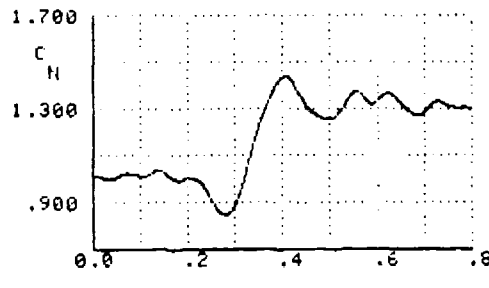
$\text{FON} = 3037$
 $\text{ALPHA}_a = 54 \text{ deg}$
 $\text{DALPHA}_a = 16 \text{ deg}$
 $T/2 = 167 \text{ msec}$

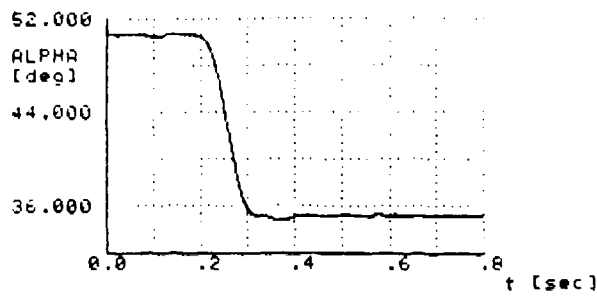




HALF (1-COS) INPUT NOSE DOWN

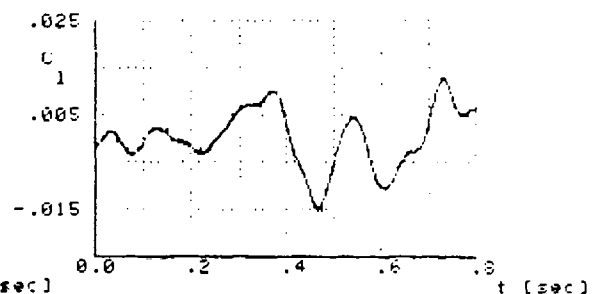
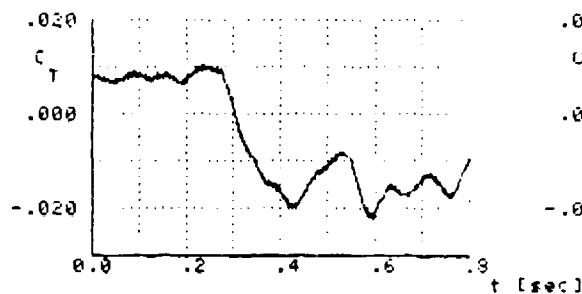
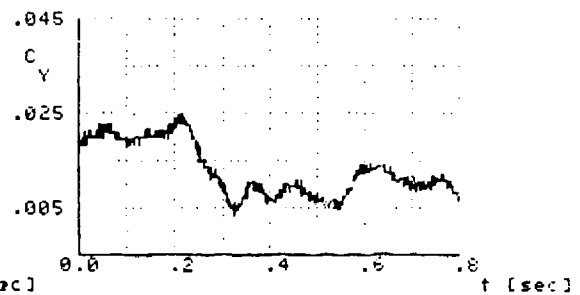
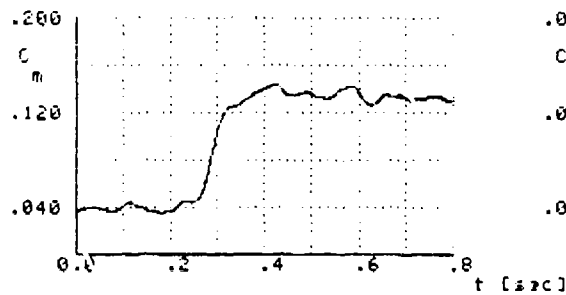
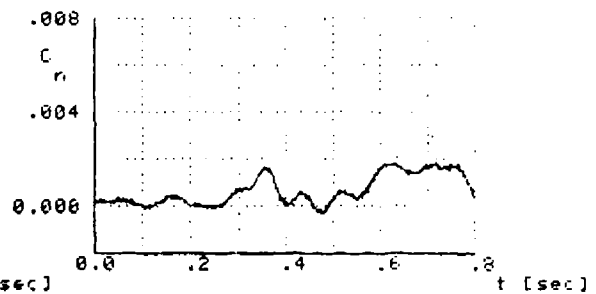
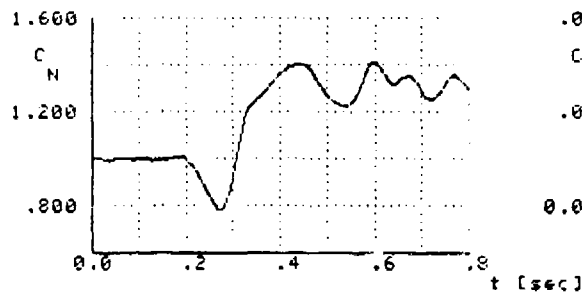
RUN = 3038
ALPHA₀ = 54 deg
ΔALPHA₀ = 16 deg
T/2 = 125 msec

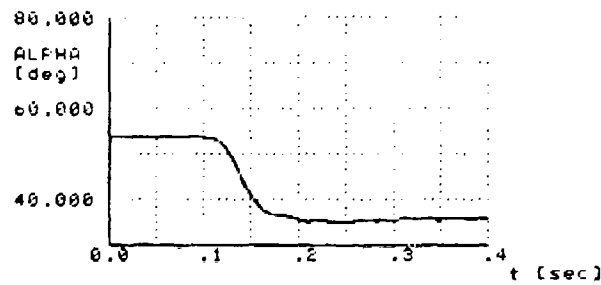




HALF (1-COS) INPUT NOSE DOWN

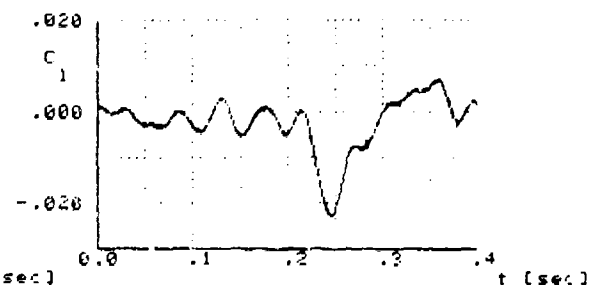
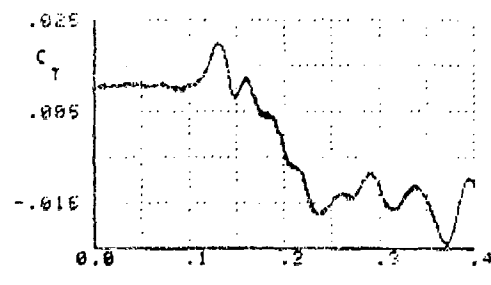
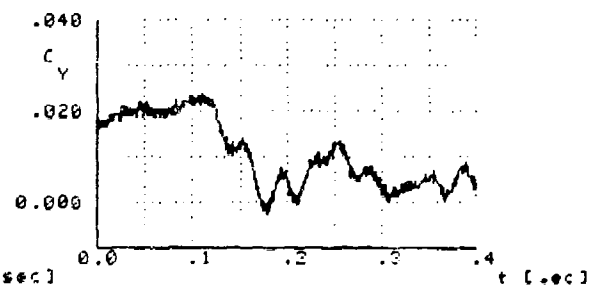
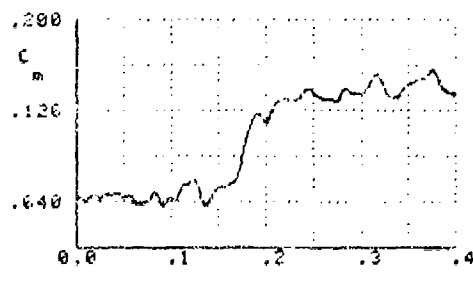
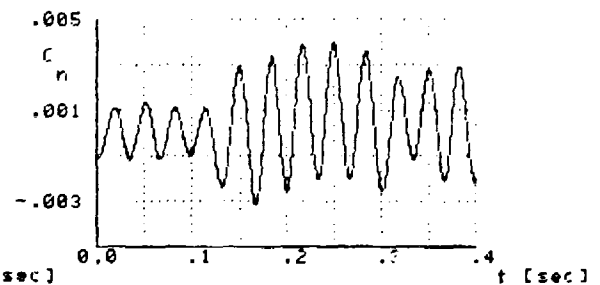
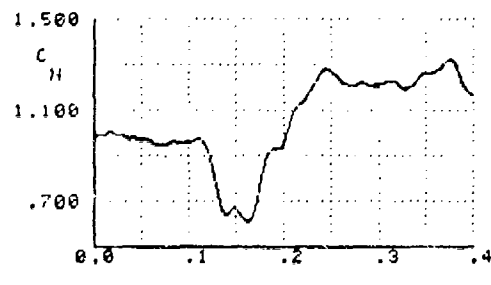
RUN = 3039
 $\text{ALPHA}_a = 54 \text{ deg}$
 $\text{DALPHA}_a = 16 \text{ deg}$
 $T/2 = 100 \text{ msec}$

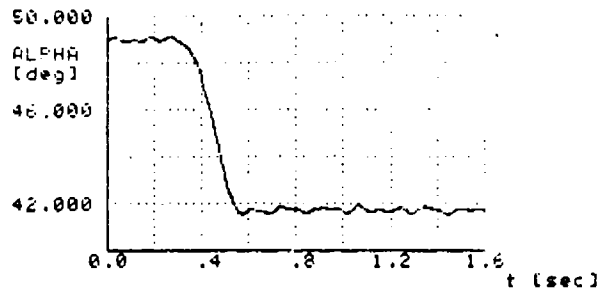




HALF (1-COS) INPUT NOSE DOWN

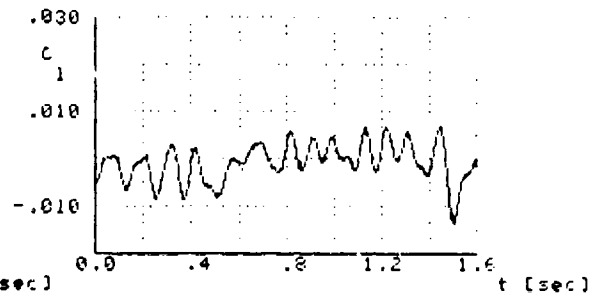
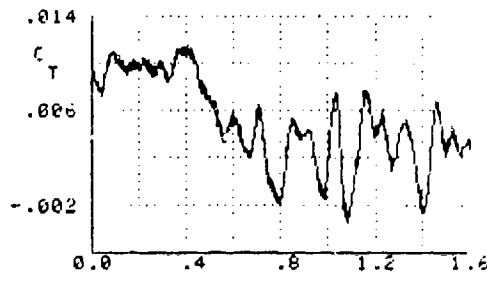
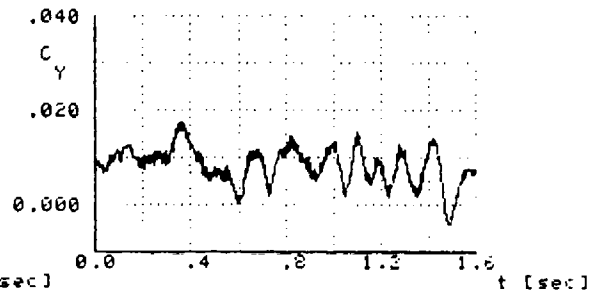
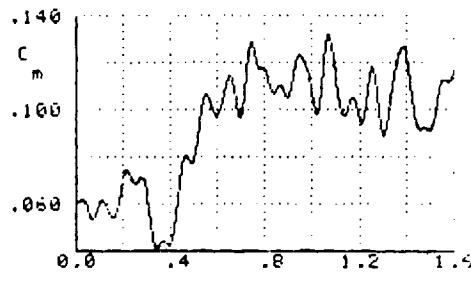
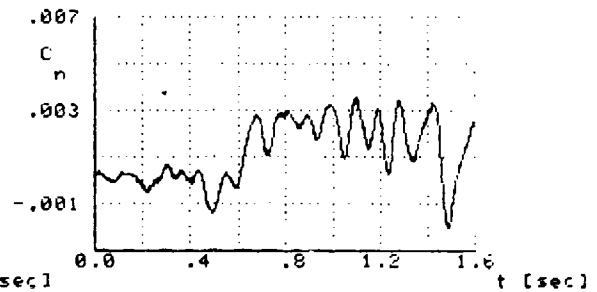
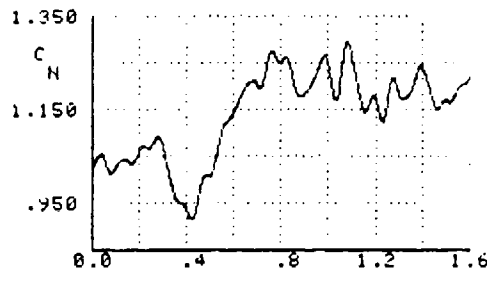
RUN = 3040
ALPHA_a = 54 deg
DALPHA_a = 16 deg
T/2 = 63 msec

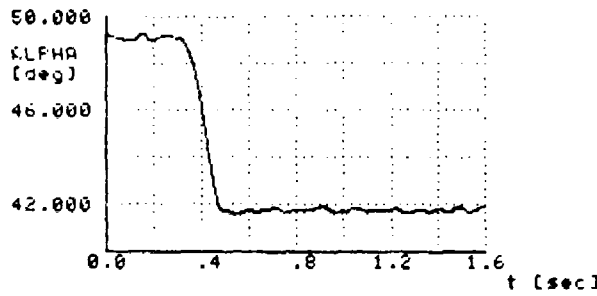




HALF (1-COS) INPUT NOSE DOWN

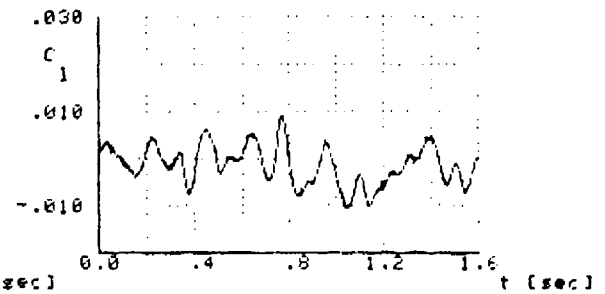
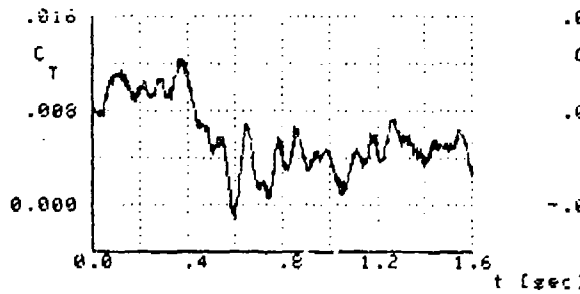
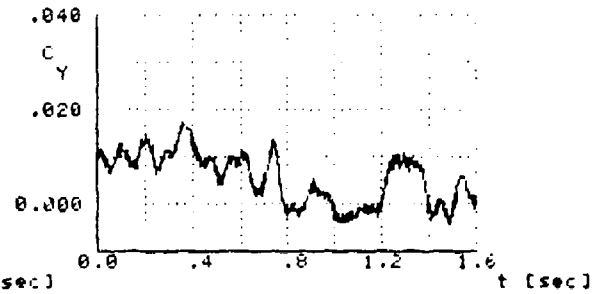
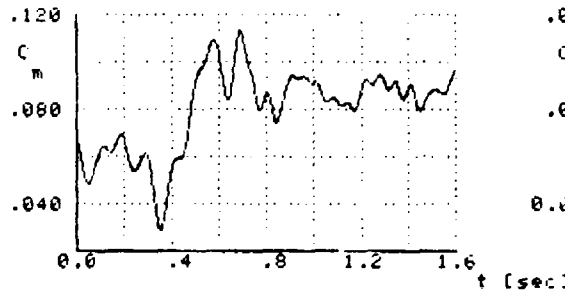
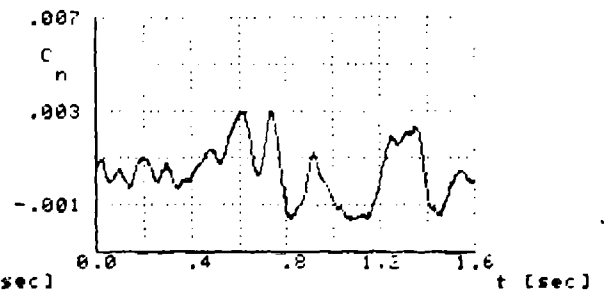
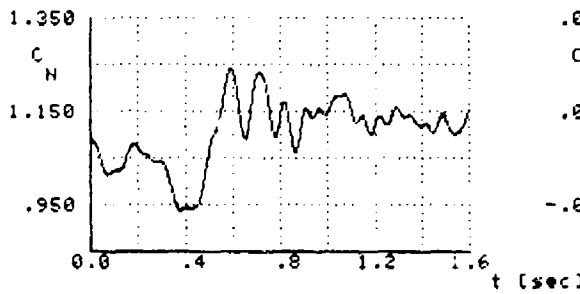
RUN = 3041
 α_{A} = 54 deg
 $\Delta\alpha_{\text{A}}$ = 8 deg
 $T/2$ = 250 msec

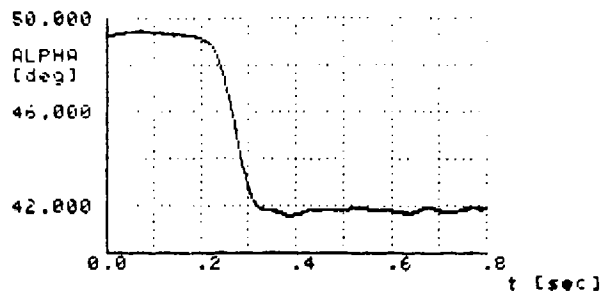




HALF (1-COS) INPUT NOSE DOWN

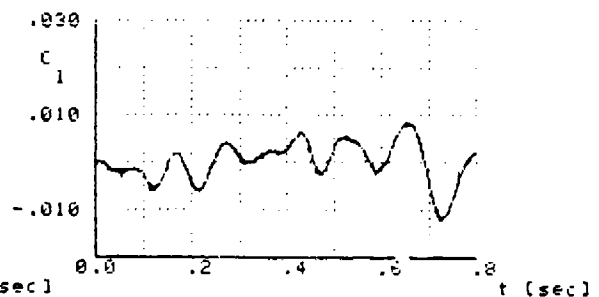
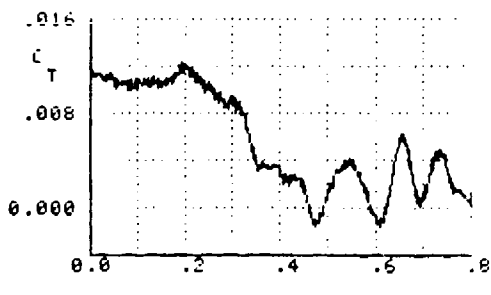
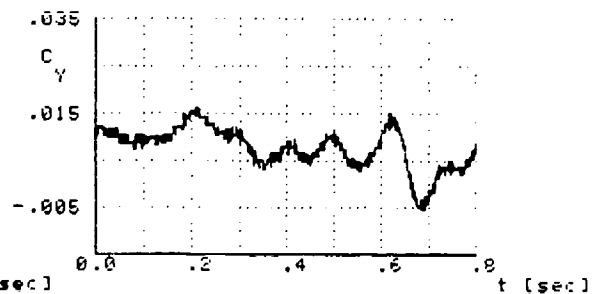
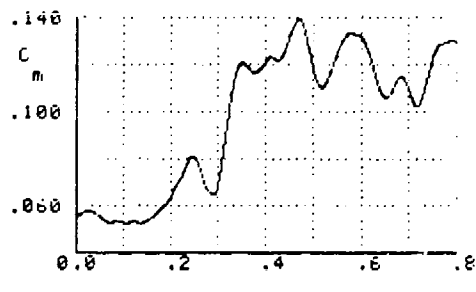
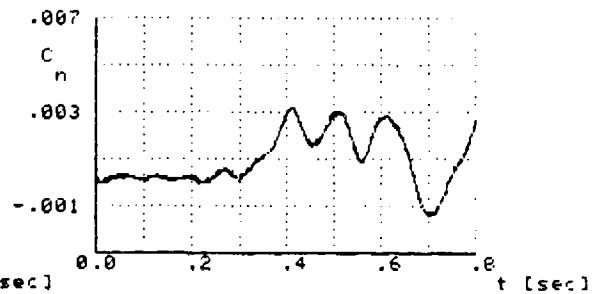
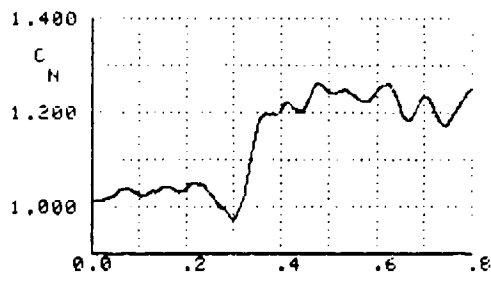
RUN = 3042
 ALPHA_a = 54 deg
 DALPHA_a = 8 deg
 T/2 = 167 msec

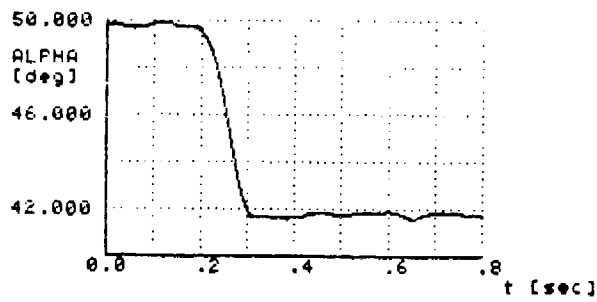




HALF (1-COS) INPUT NOSE DOWN

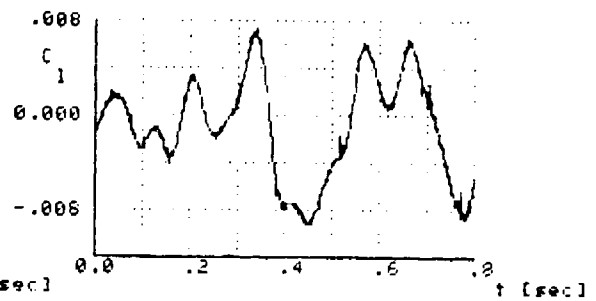
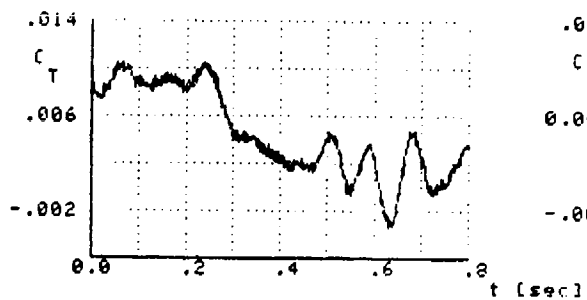
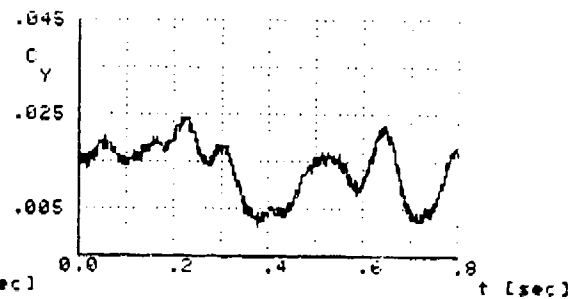
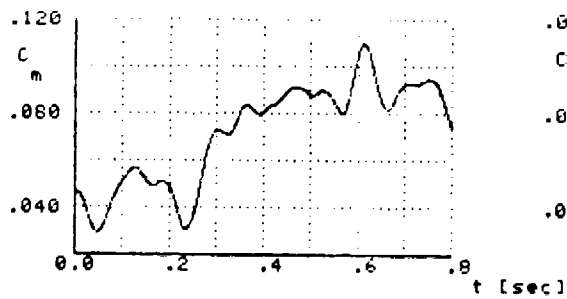
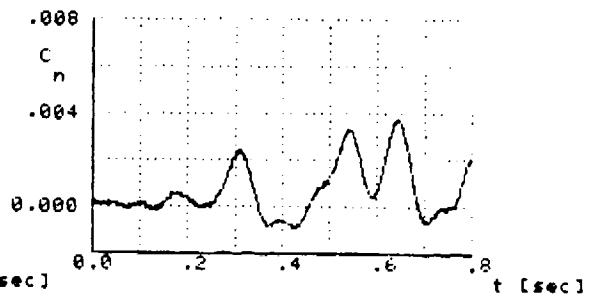
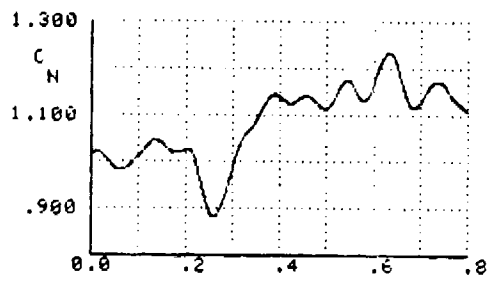
RUN = 3043
 $\text{ALPHA}_a = 54 \text{ deg}$
 $\text{DALPHA}_a = 8 \text{ deg}$
 $T/2 = 125 \text{ msec}$

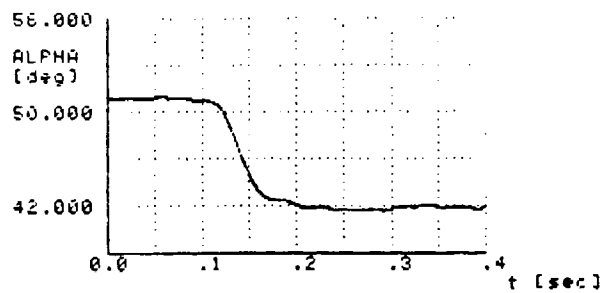




HALF (1-COS) INPUT NOSE DOWN

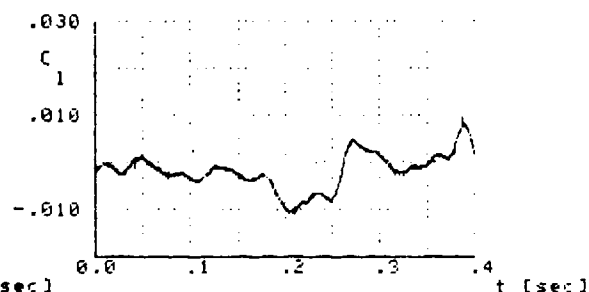
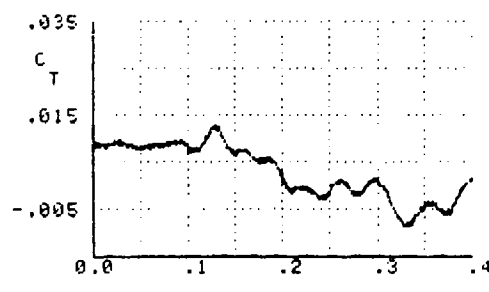
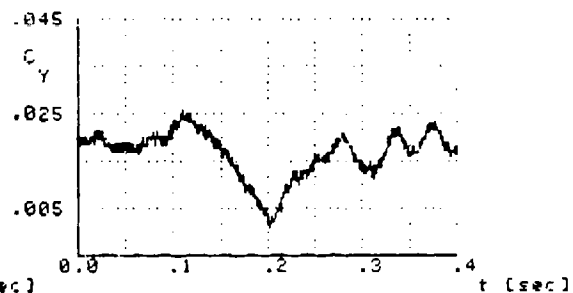
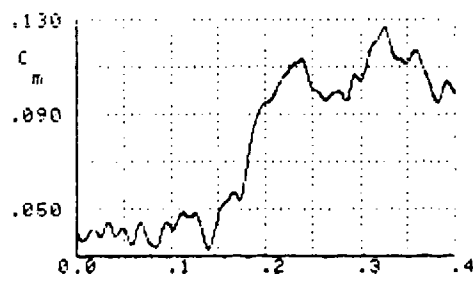
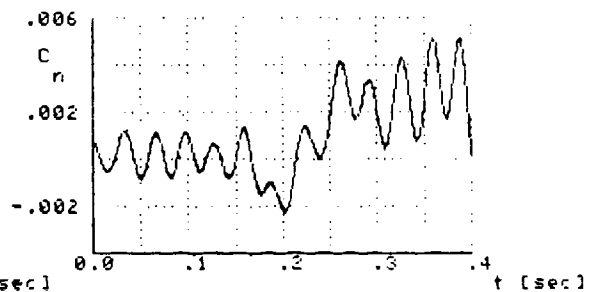
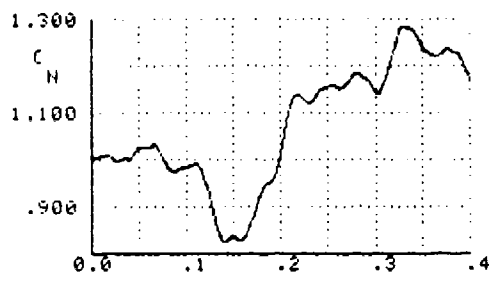
RUN = 3044
ALPHA_a = 54 deg
DALPHA_a = 8 deg
T/2 = 100 m.sec

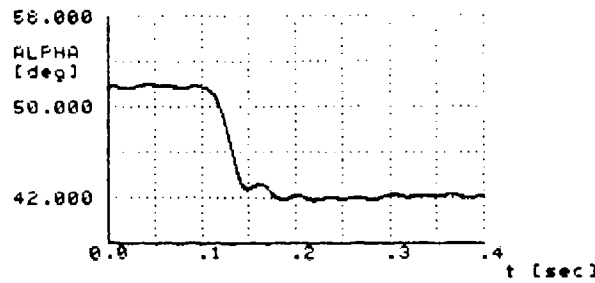




HALF (1-COS) INPUT NOSE DOWN

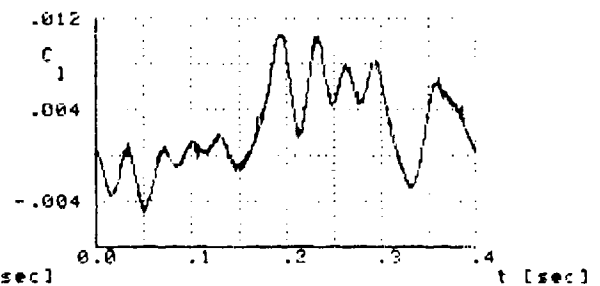
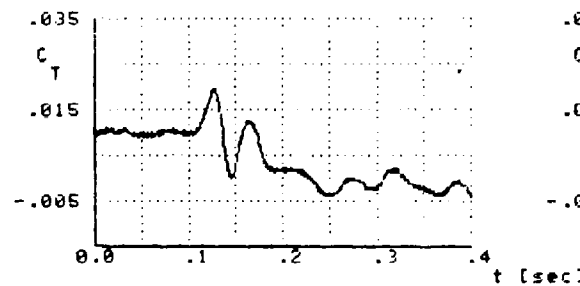
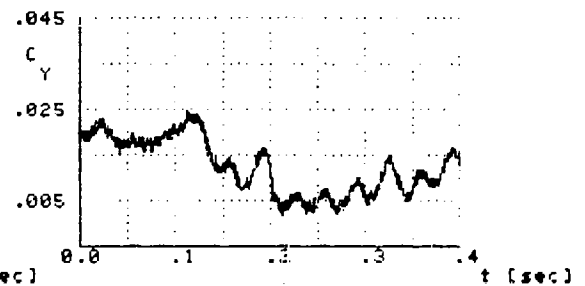
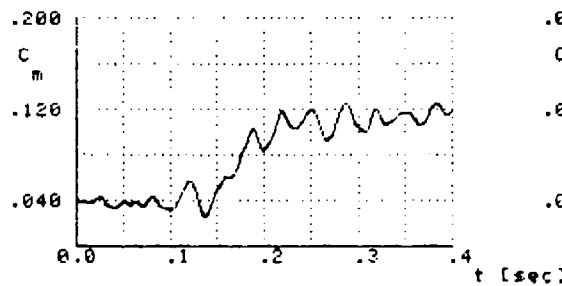
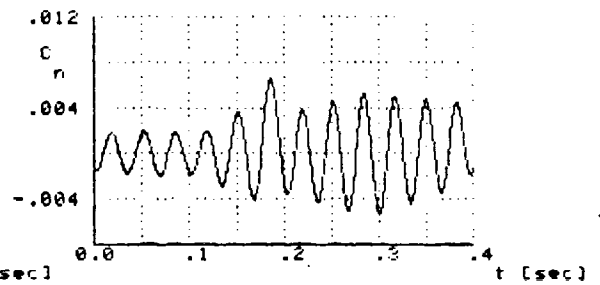
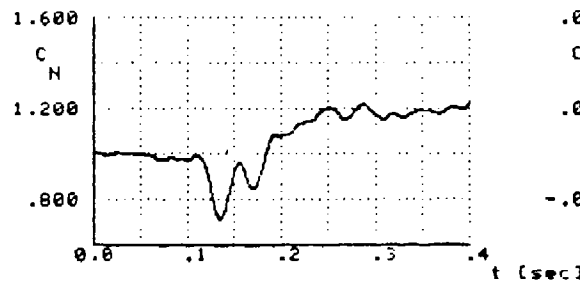
RUN = 3045
 ALPHA_a = 54 deg
 DALPHA_a = 8 deg
 T/2 = 63 msec

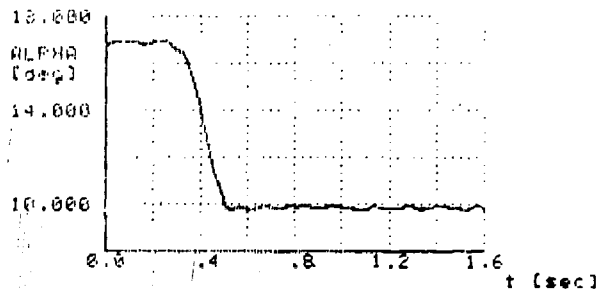




HALF (1-COS) INPUT NOSE DOWN

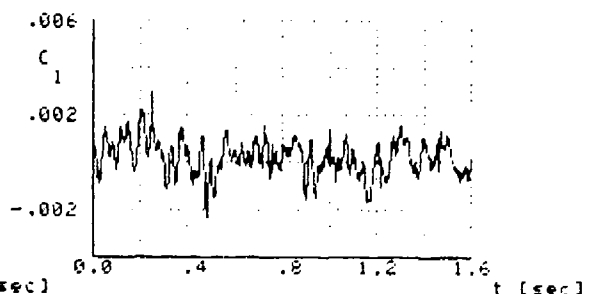
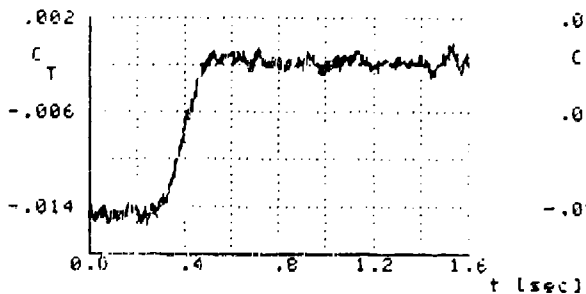
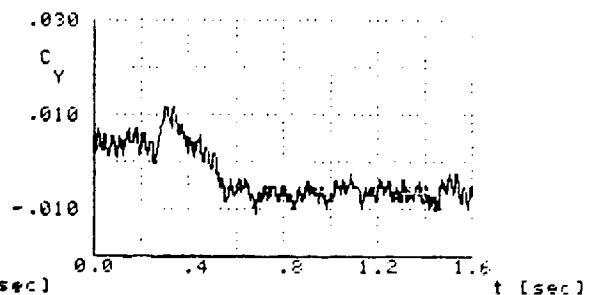
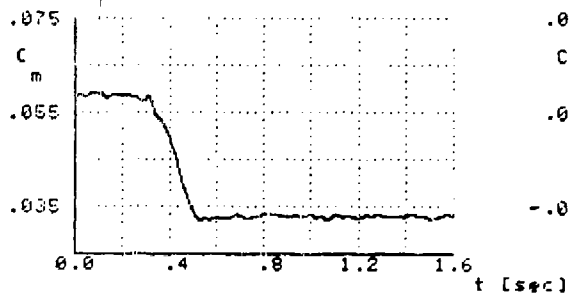
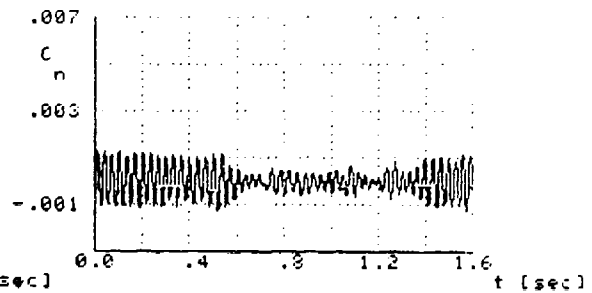
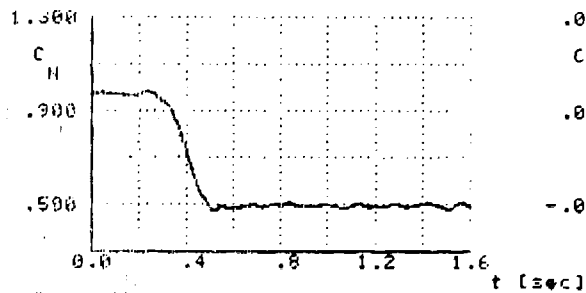
RUN = 3046
ALPHA₂ = 54 deg
DALPHA₂ = 8 deg
T/2 = 42 msec

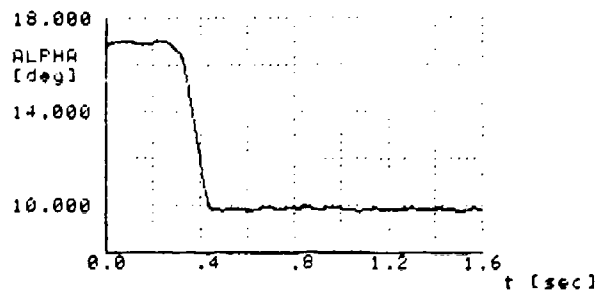




HALF (1-COS) INPUT NOISE DOWN

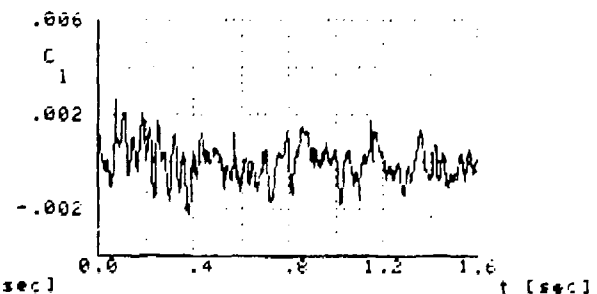
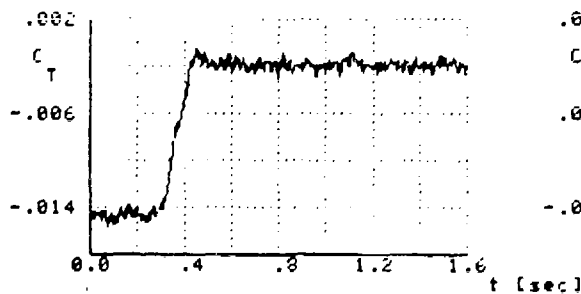
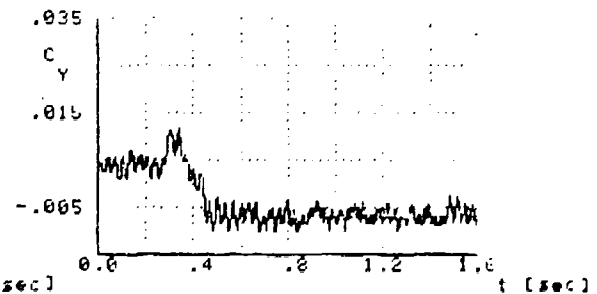
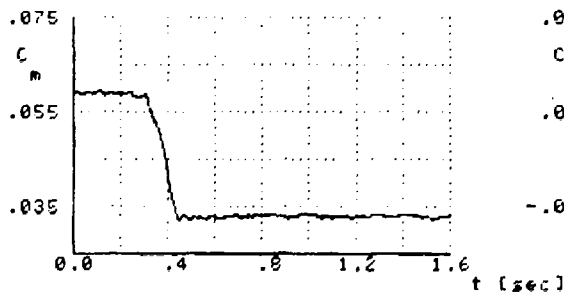
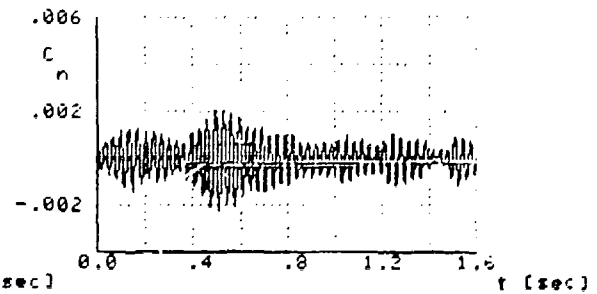
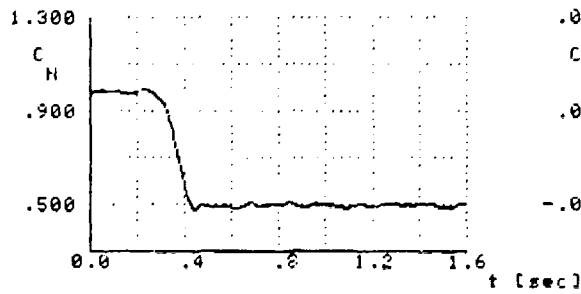
RUN = 3047
 ALPHA = 16 deg
 DALPHA = 8 deg
 T/2 = 250 msec

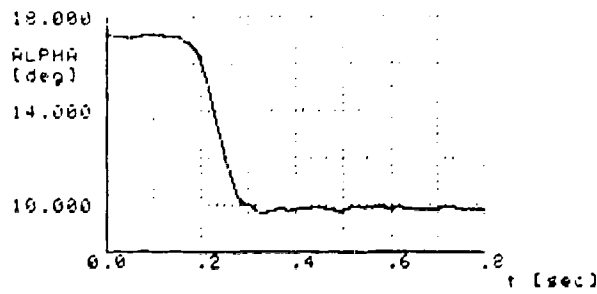




HALF (1-COS) INPUT NOSE DOWN

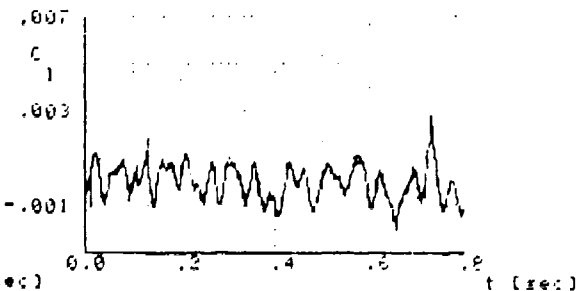
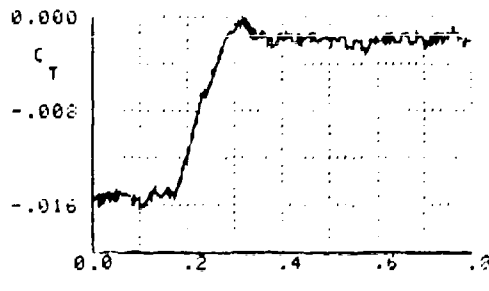
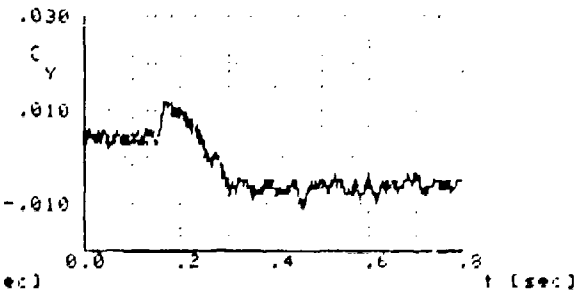
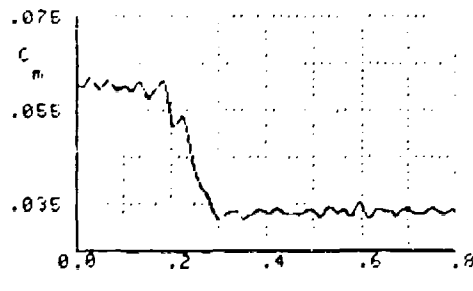
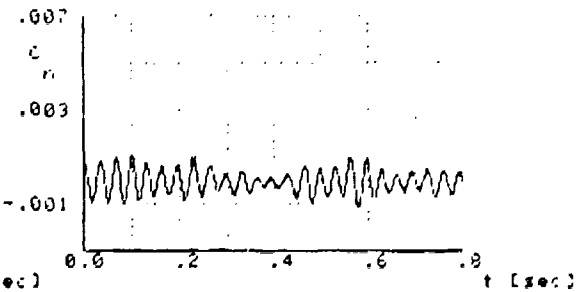
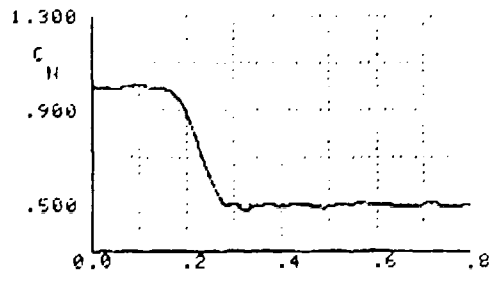
RUN = 3048
ALPHA_Δ = 16 deg
DALPHA_Δ = 8 deg
T/2 = 167 msec

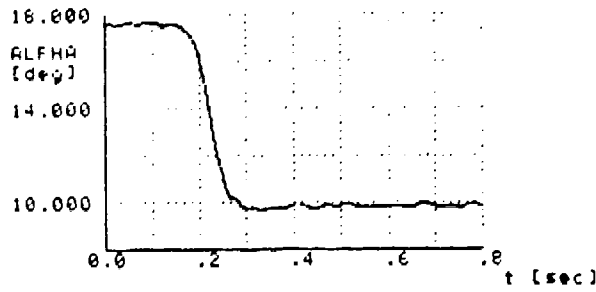




HALF (1-COS) INPUT NOSE DOWN

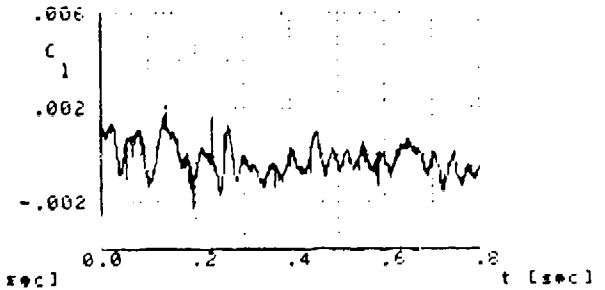
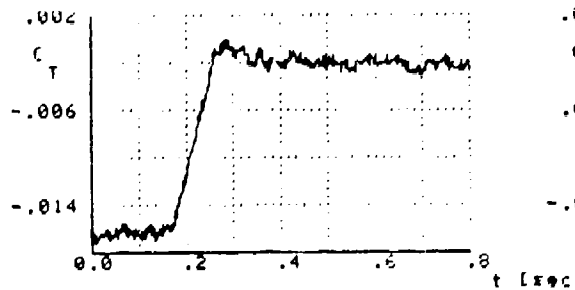
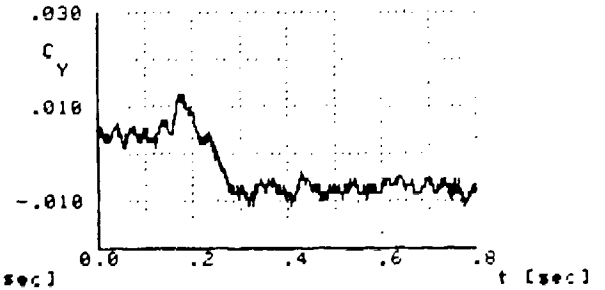
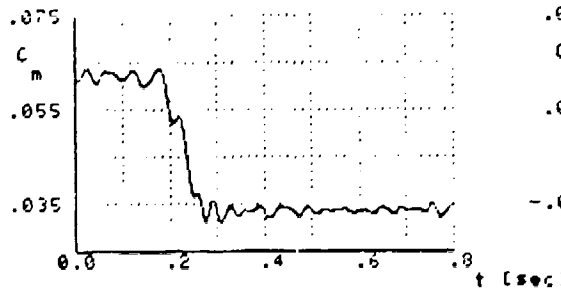
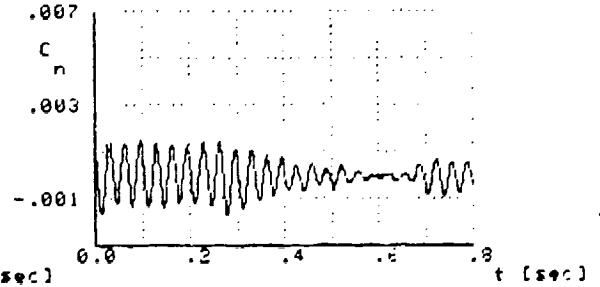
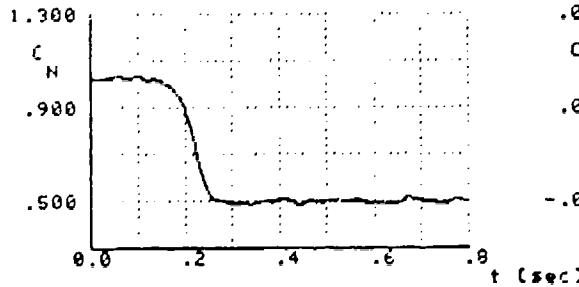
RUN = 3049
 ALPHA = 15 deg
 DALPHA = 8 deg
 T/2 = 125 msec

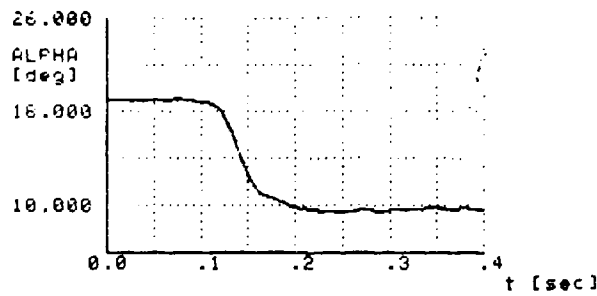




HALF (1-COS) INPUT NOSE DOWN

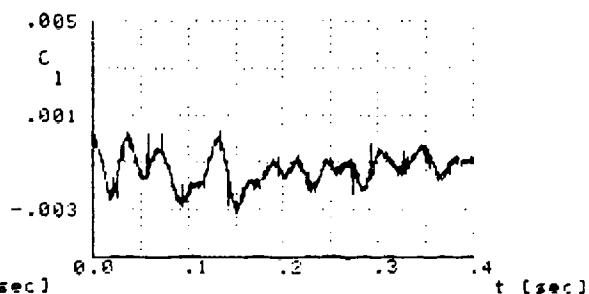
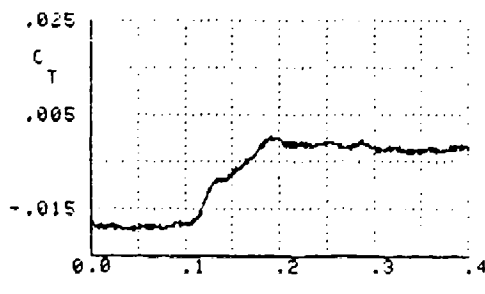
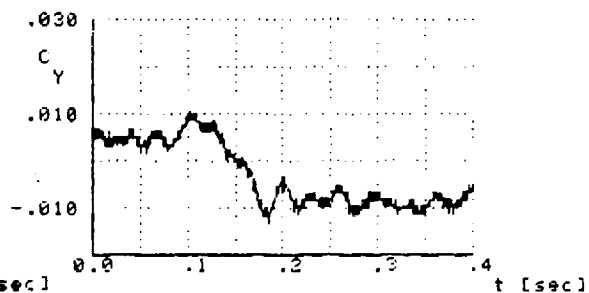
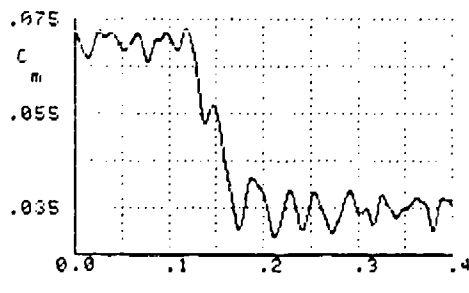
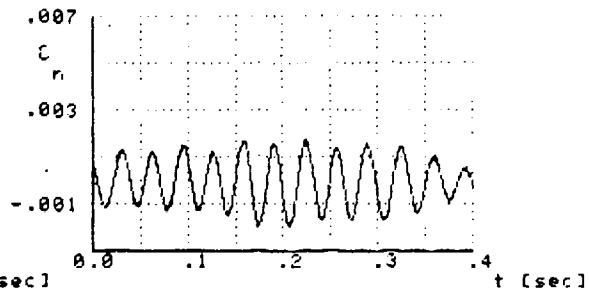
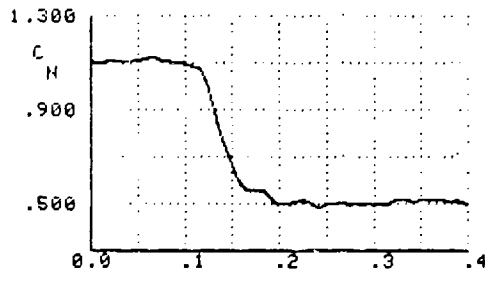
RUN = 3050
ALPHA_a = 16 deg
DALPHA_a = 8 deg
T/2 = 100 msec

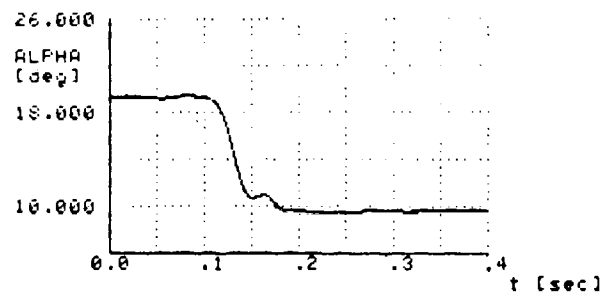




HALF (1-COS) INPUT NOSE DOWN

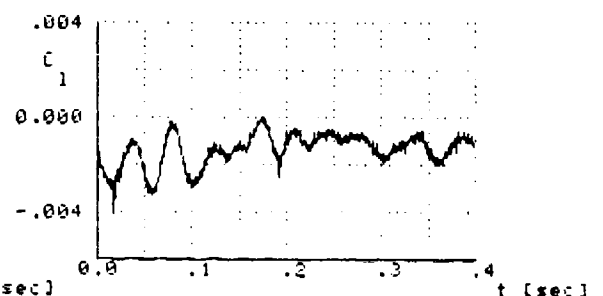
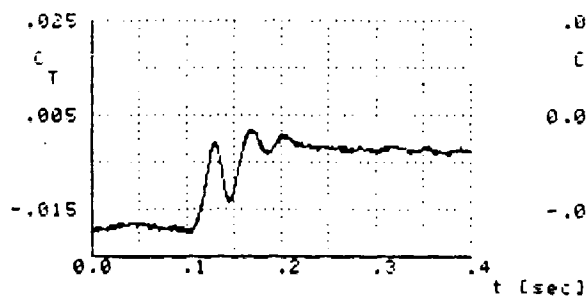
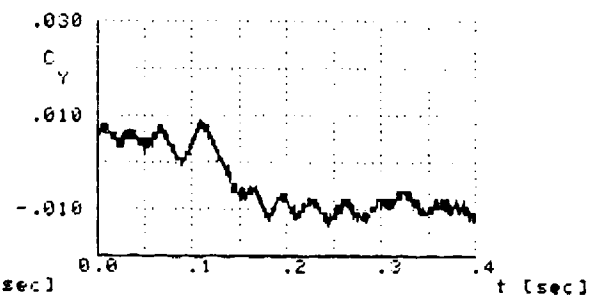
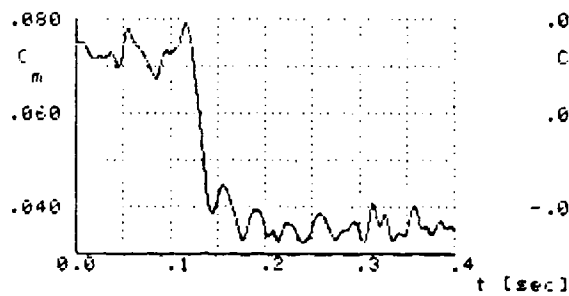
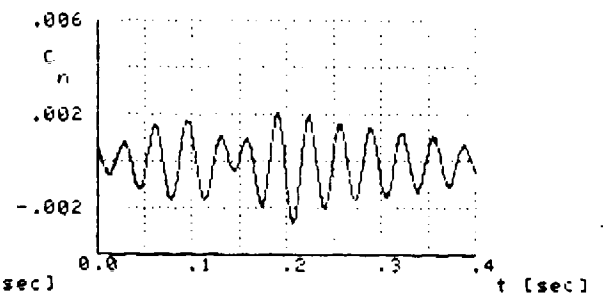
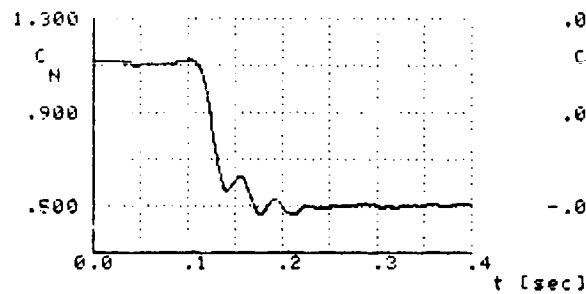
RUN = 3651
ALPHA_a = 16 deg
DALPHA_a = 8 deg
T/2 = 63 msec

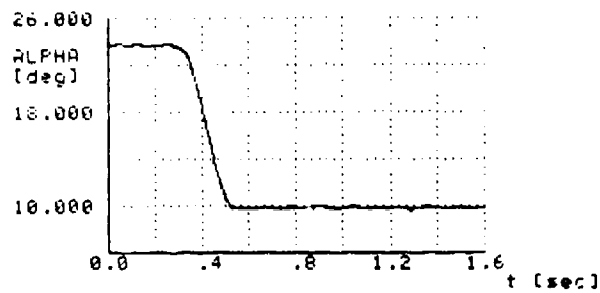




HALF (1-COS) INPUT NOSE DOWN

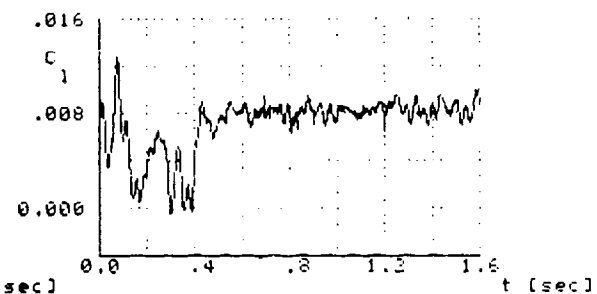
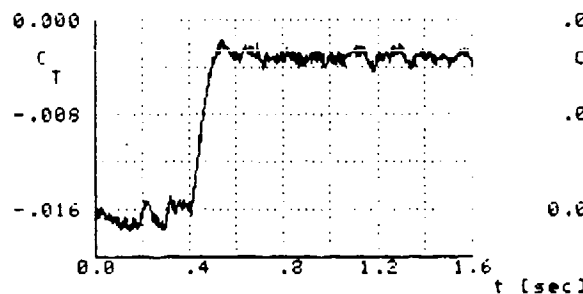
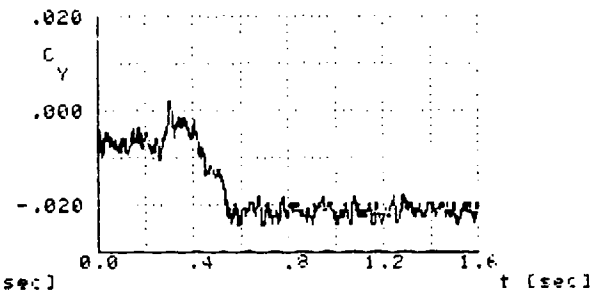
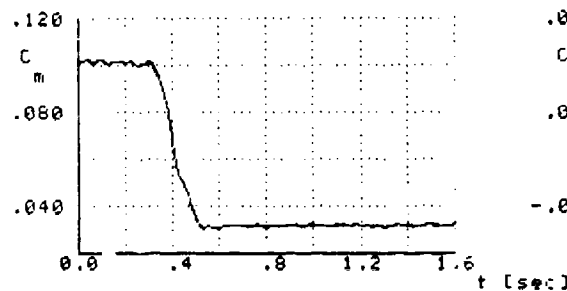
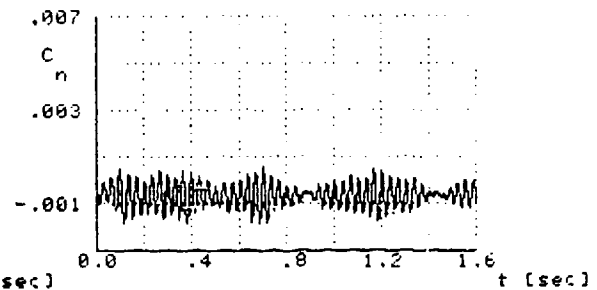
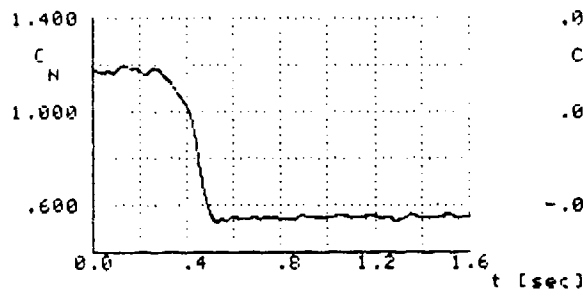
RUN = 3052
 ALPHA_a = 16 deg
 DALPHA_a = 8 deg
 T/2 = 42 msec

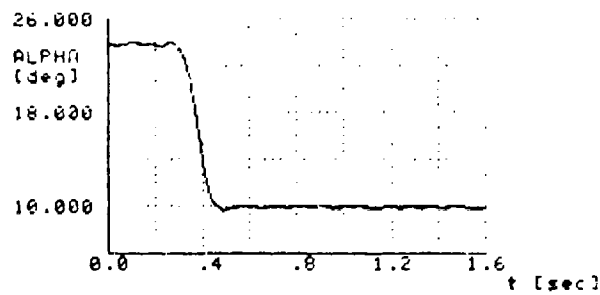




HALF (1-COS) INPUT NOSE DOWN

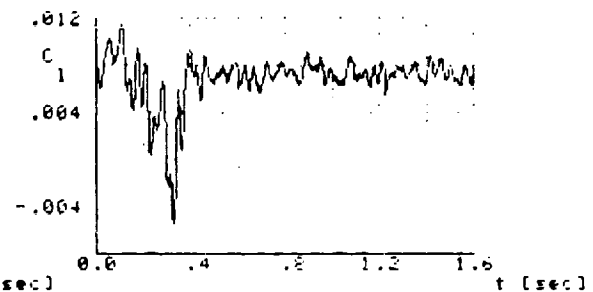
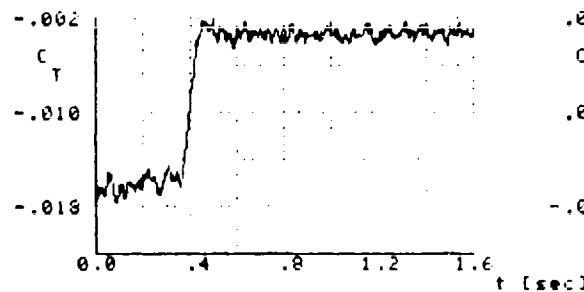
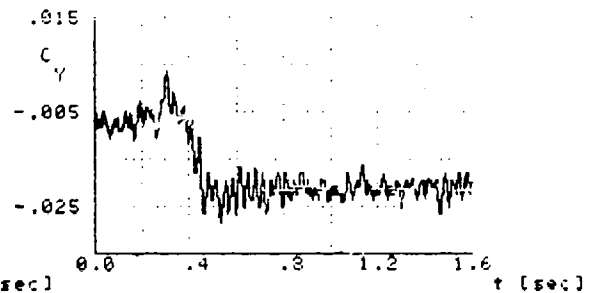
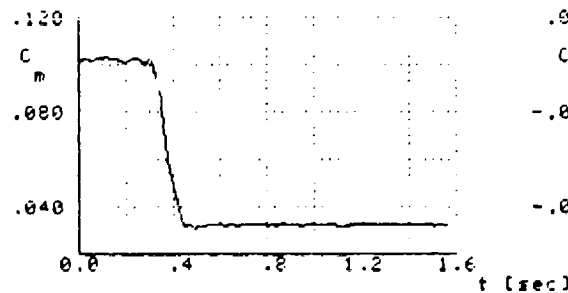
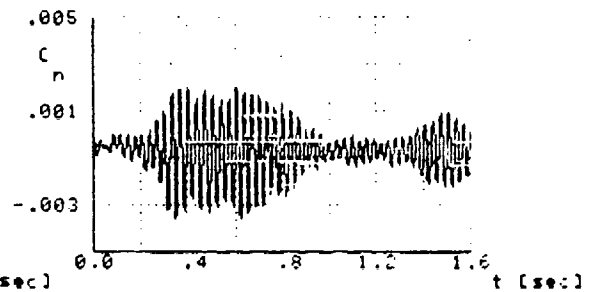
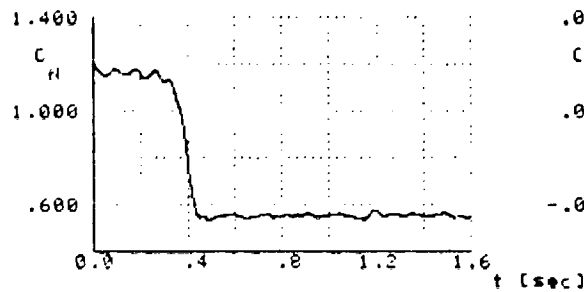
RUN = 3053
ALPHA₀ = 24 deg
DALPHA₀ = 16 deg
T/2 = 250 msec

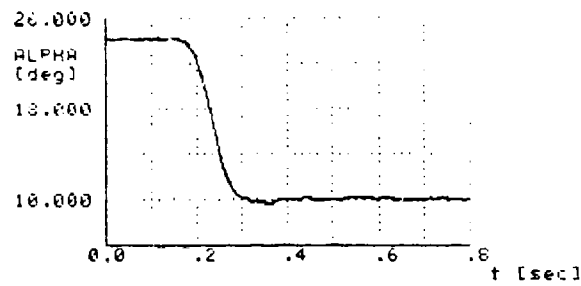




HALF (1-COS) INPUT NOSE DOWN

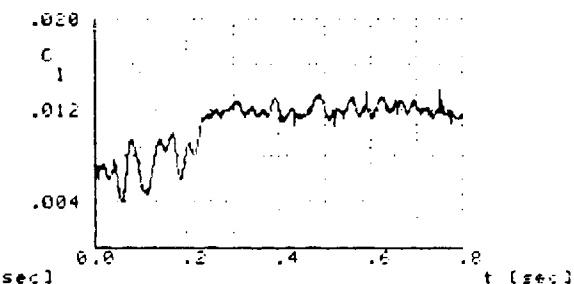
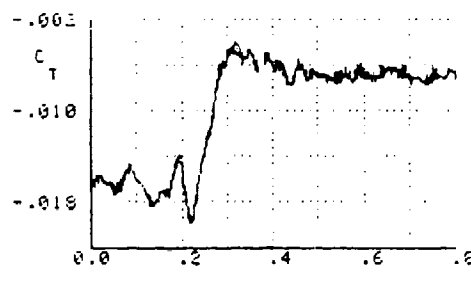
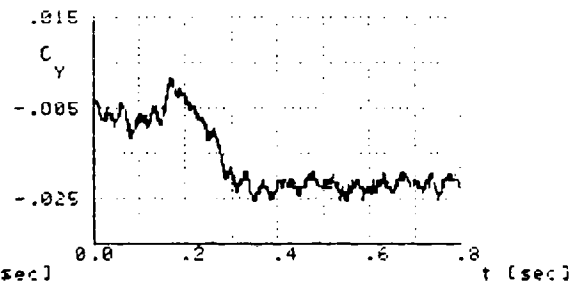
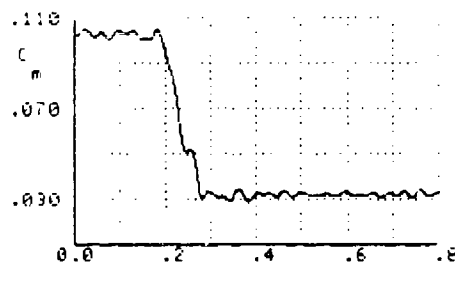
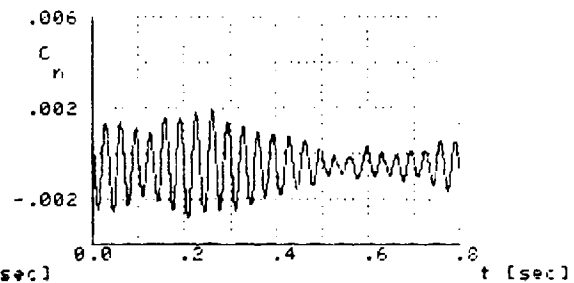
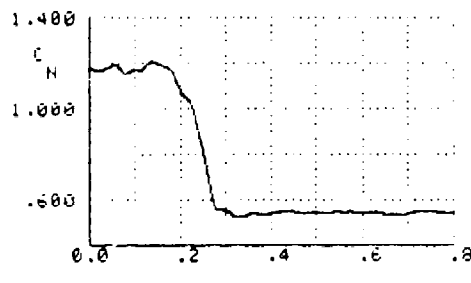
RUN = 3054
 ALPHA_Δ = 24 deg
 DRALPHA_Δ = 16 deg
 T/2 = 167 msec

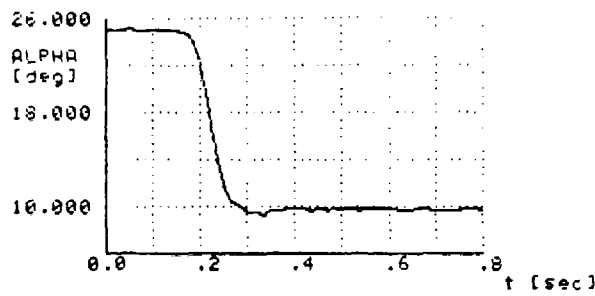




HALF (1-COS) INPUT NOSE DOWN

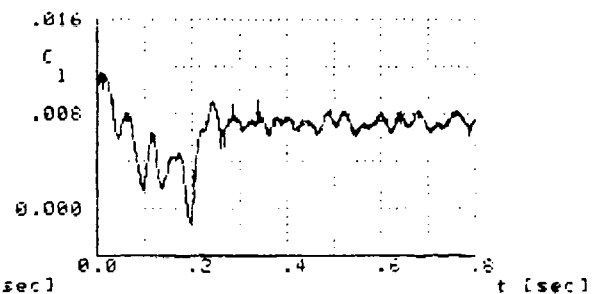
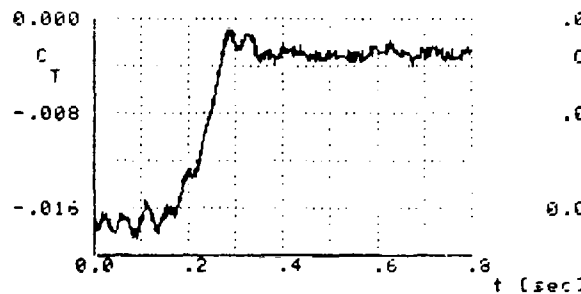
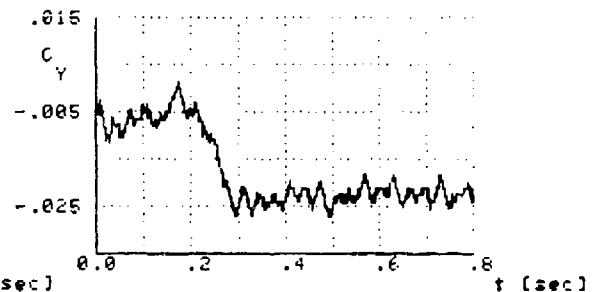
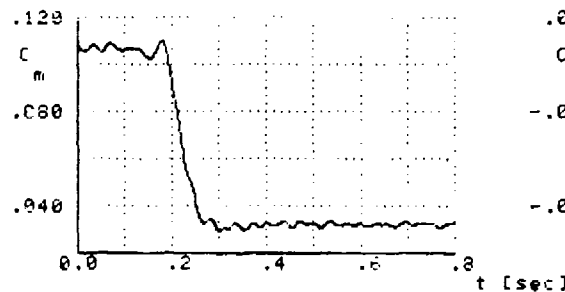
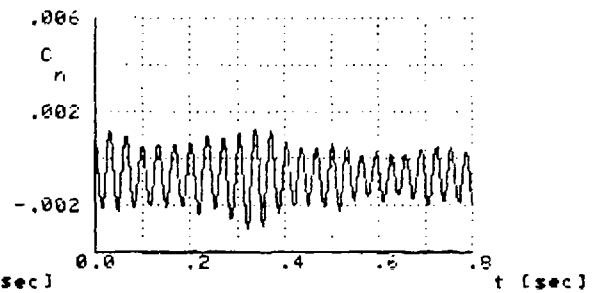
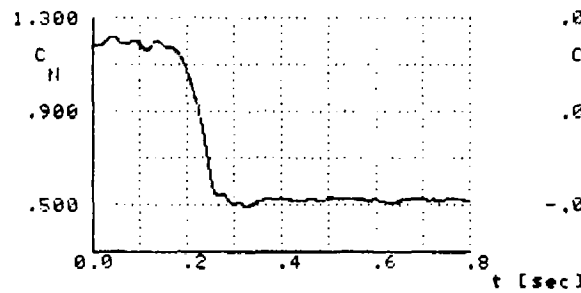
RUN = 3055
 ALPHA_a = 24 deg
 DIALPHA_a = 16 deg
 T/2 = 125 msec

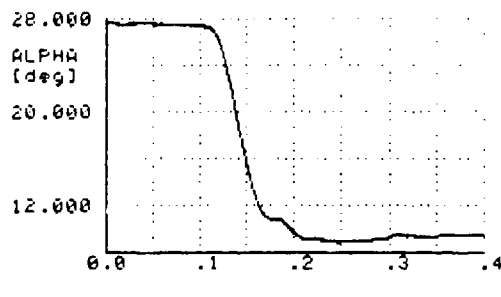




HALF (1-COS) INPUT NOSE DOWN

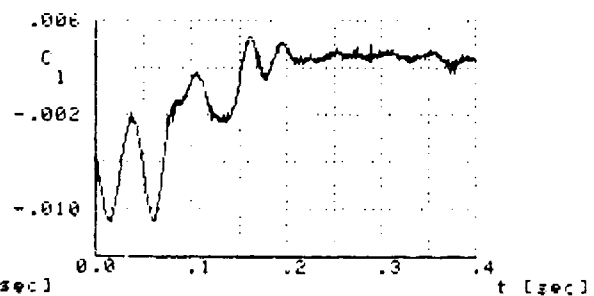
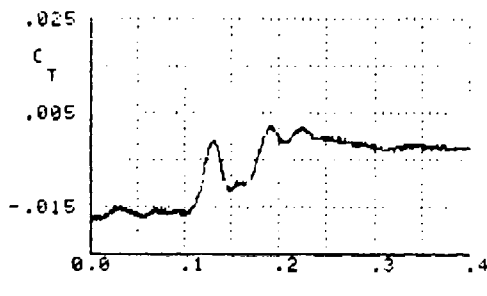
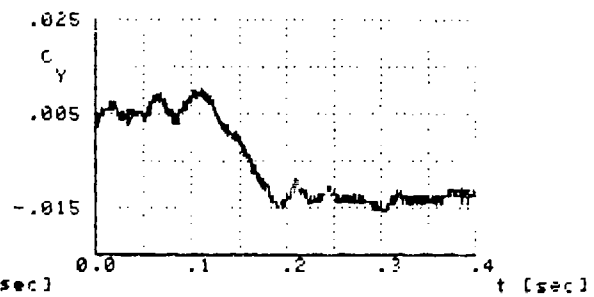
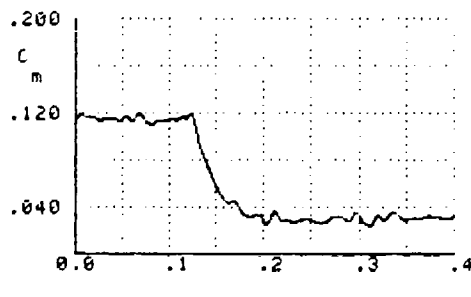
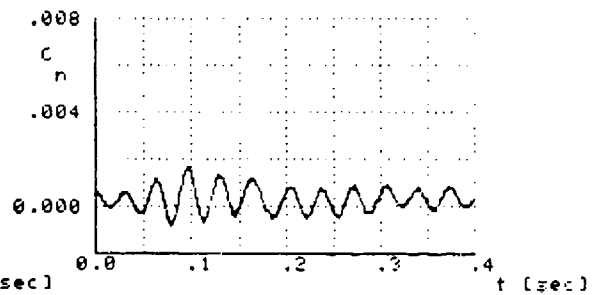
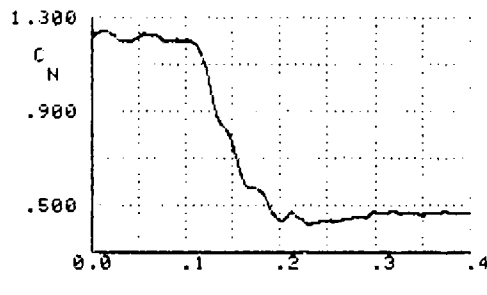
RUN = 3056
 ALPHA_a = 24 deg
 DALPHA_a = 16 deg
 T/2 = 100 msec

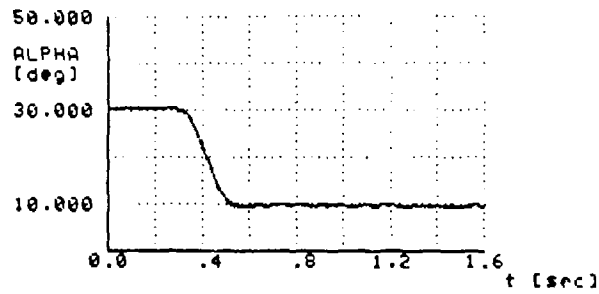




HALF (1-COS) INPUT NOSE DOWN

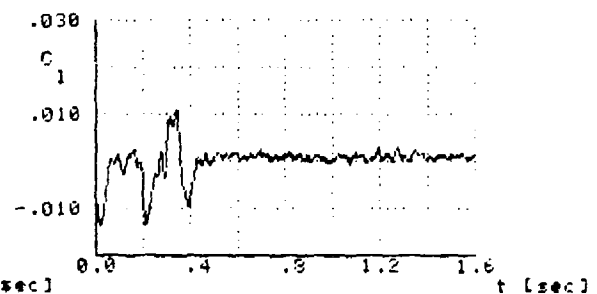
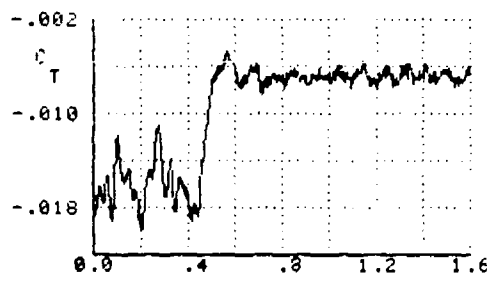
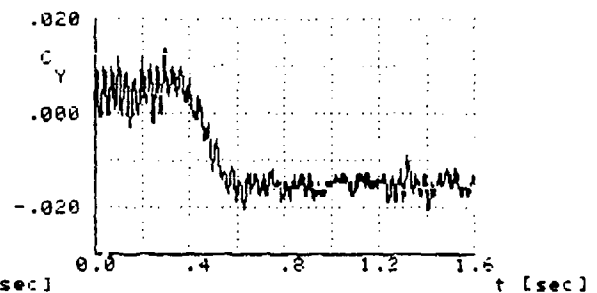
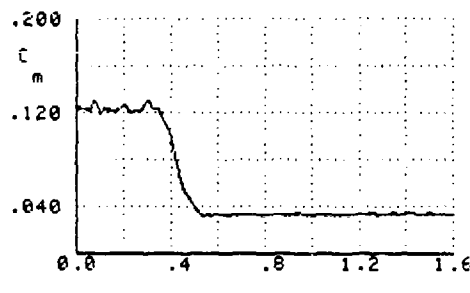
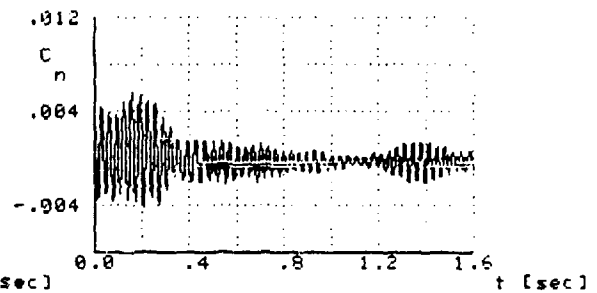
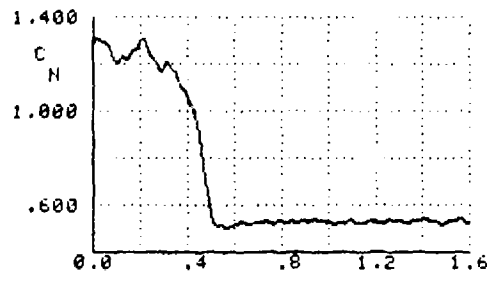
RUN = 3057
 ALPHA = 24 deg
 DALPHA = 16 deg
 T/2 = 63 msec

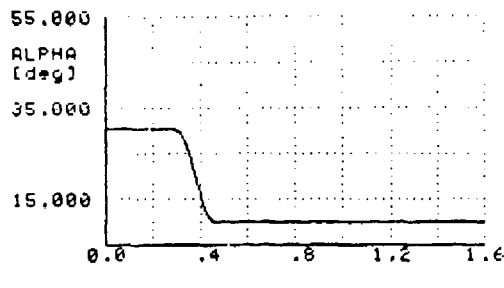




HALF (1-COS) INPUT NOISE DOWN

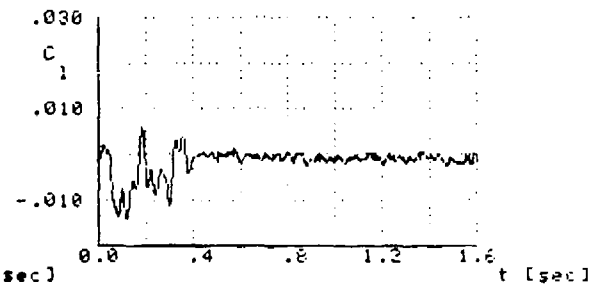
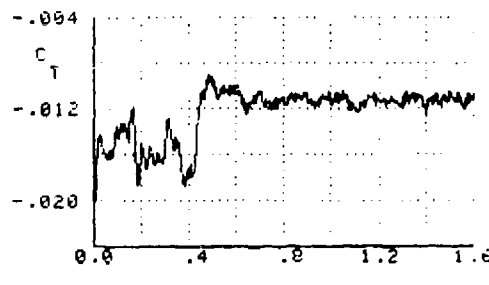
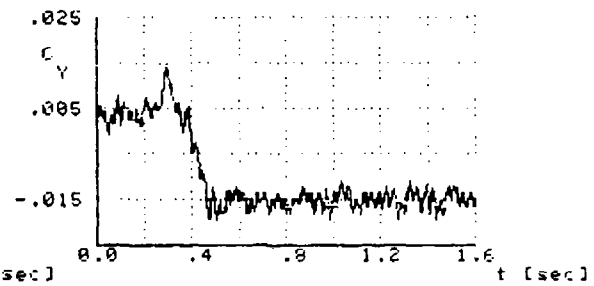
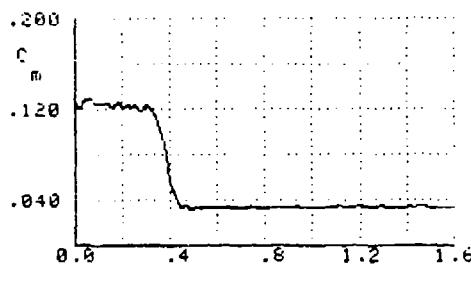
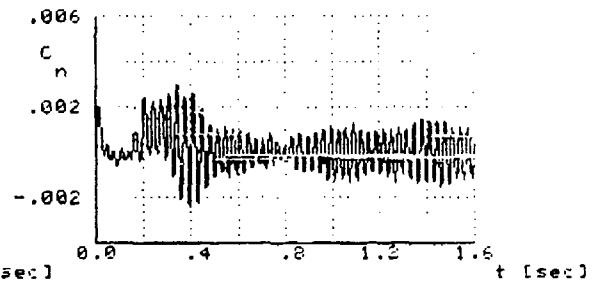
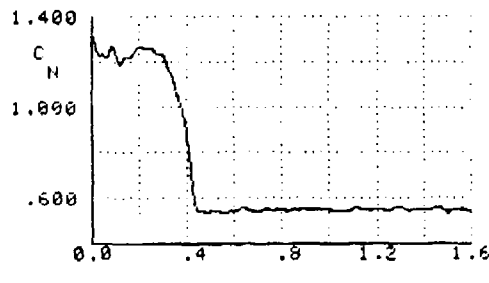
RUN = 3058
 ALPHA_a = 32 deg
 DALPHA_a = 24 deg
 T/2 = 250 msec

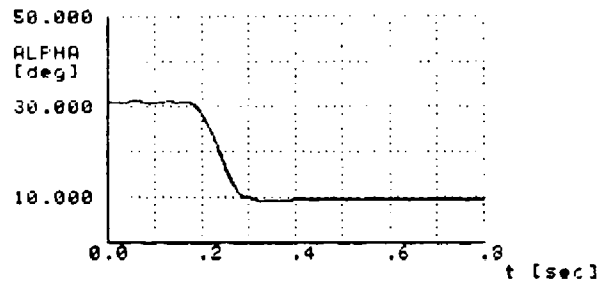




HALF (1-COS) INPUT NOSE DOWN

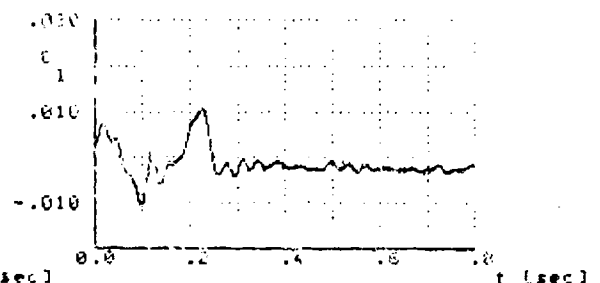
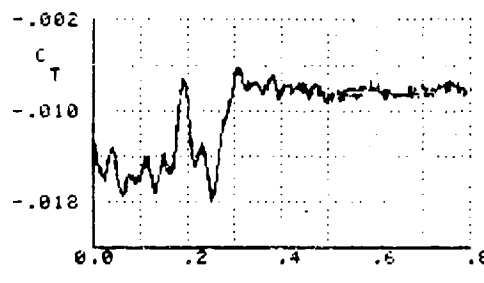
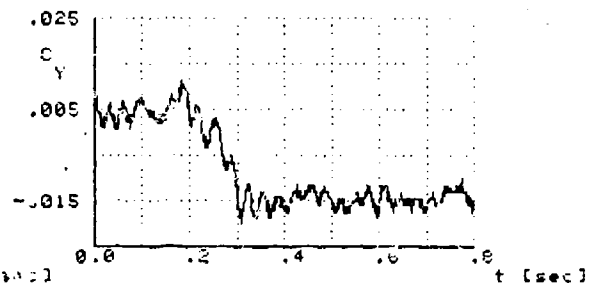
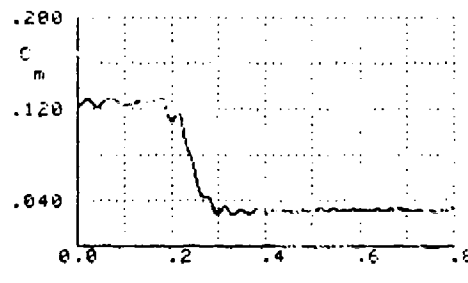
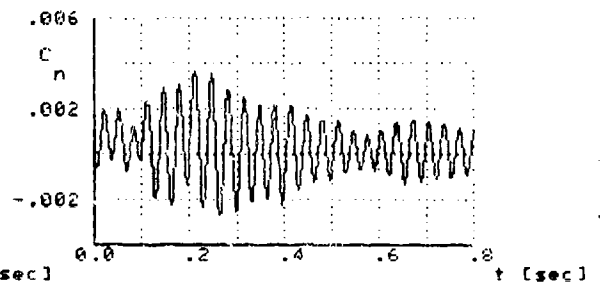
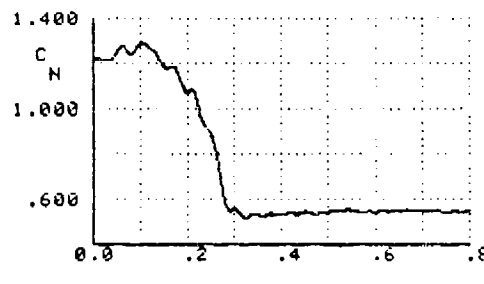
RUN = 3059
ALPHA_A = 32 deg
DALPHA_A = 24 deg
T/2 = 167 msec

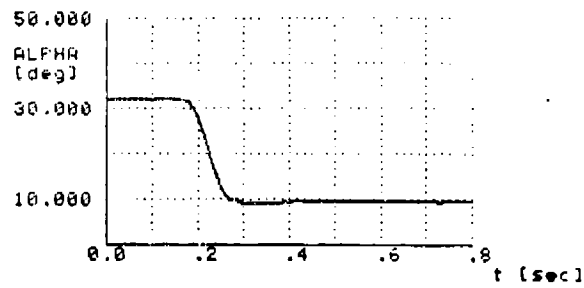




HALF (1-COS) INPUT NOSE DOWN

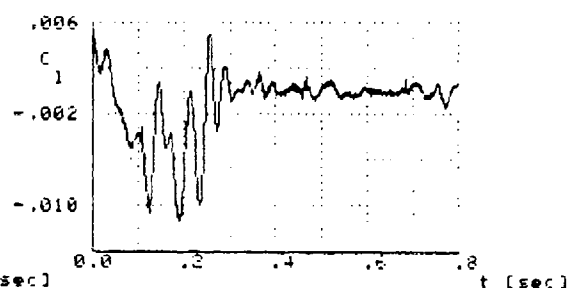
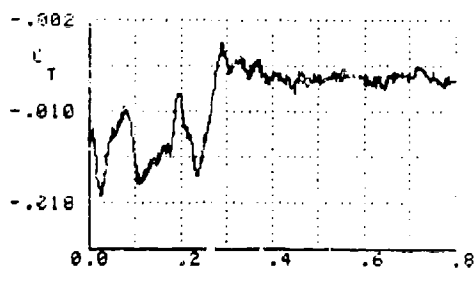
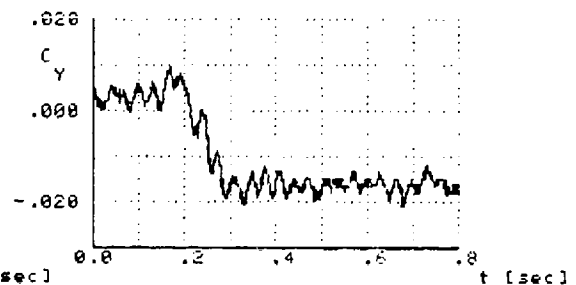
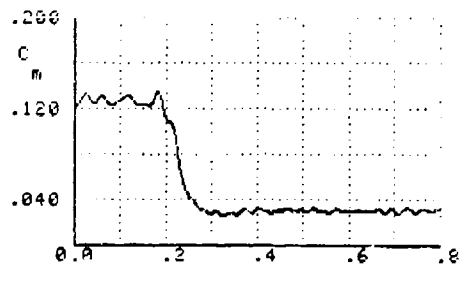
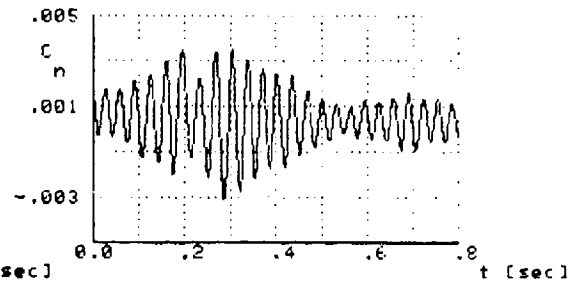
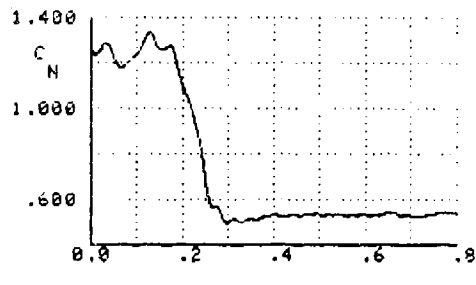
RUN = 3060
ALPHA₀ = 32 deg
DALPHA₀ = 24 deg
T/2 = 125 msec

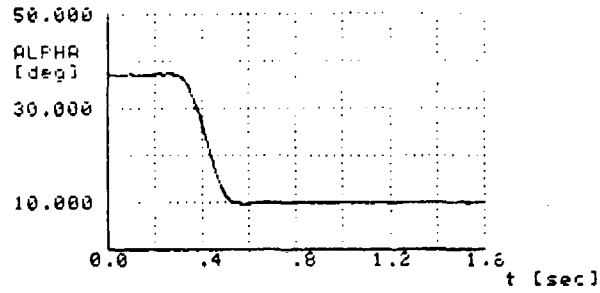




HALF (1-COS) INPUT NOSE DOWN

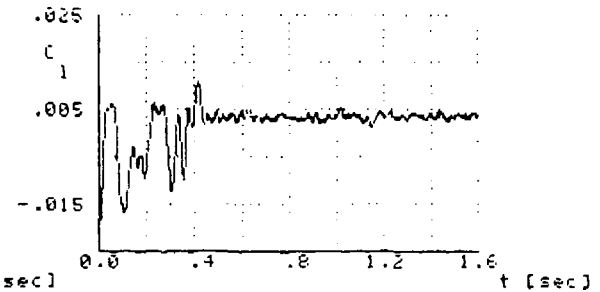
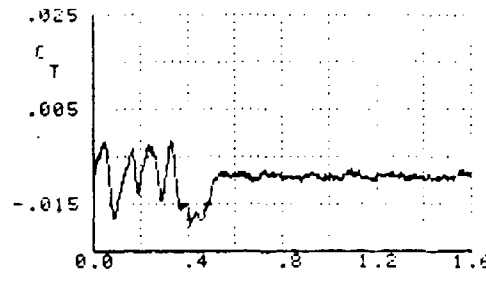
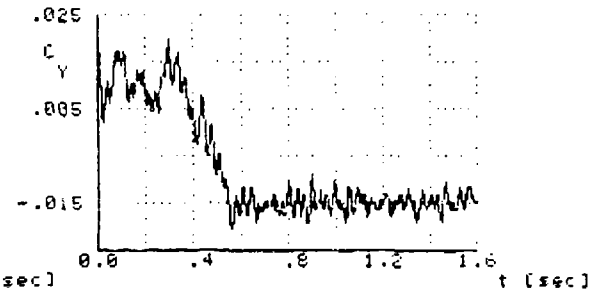
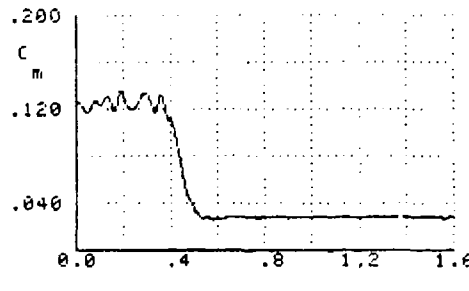
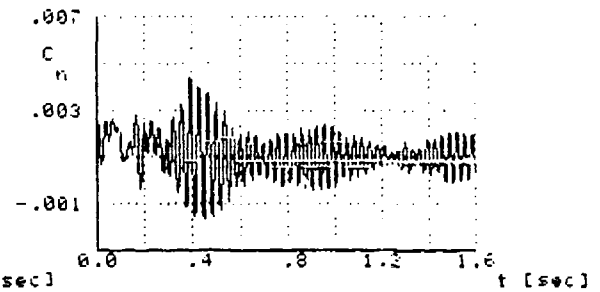
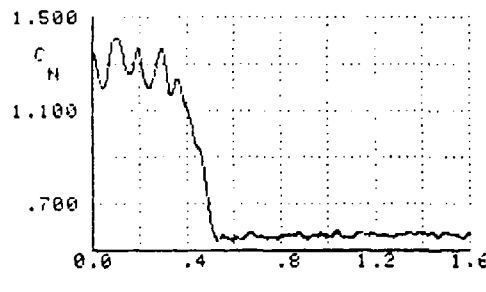
RUN = 3061
ALPHA_A = 32 deg
DALPHA_A = 24 deg
T/2 = 100 msec

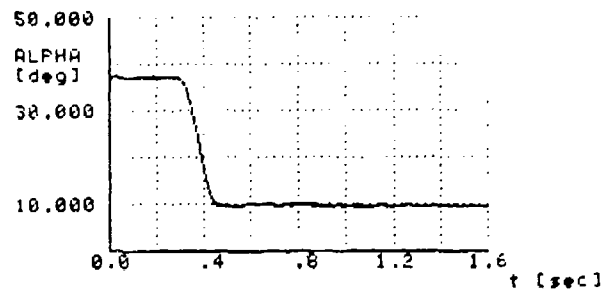




HALF (1-COS) INPUT NOSE DOWN

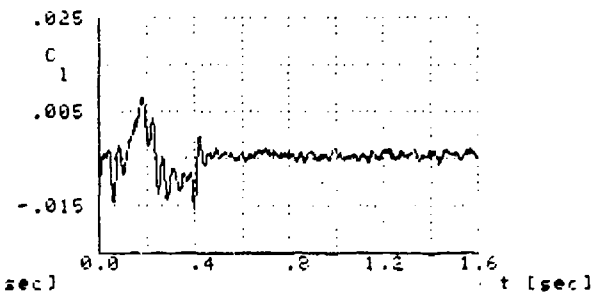
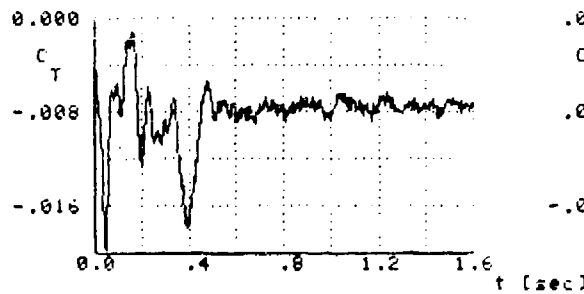
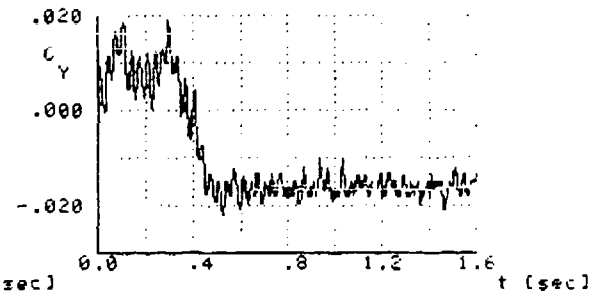
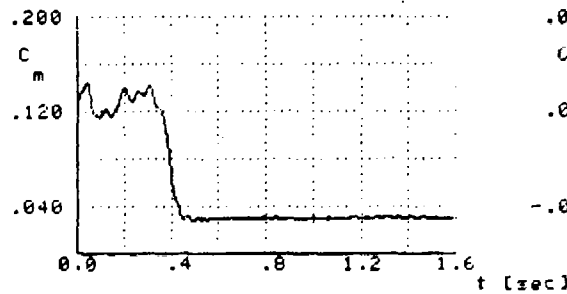
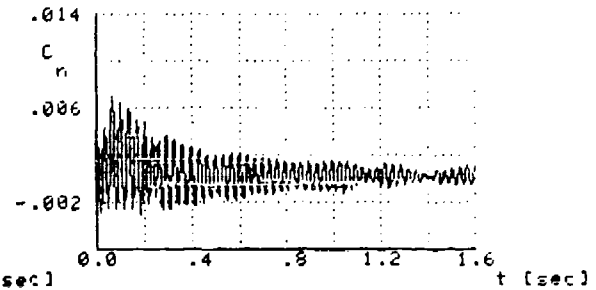
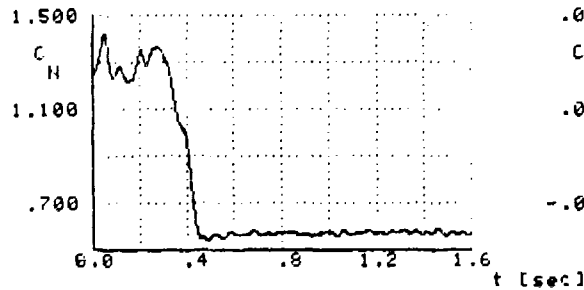
RUN = 3062
ALPHA_a = 40 deg
DALPHA_a = 32 deg
T/2 = 250 msec

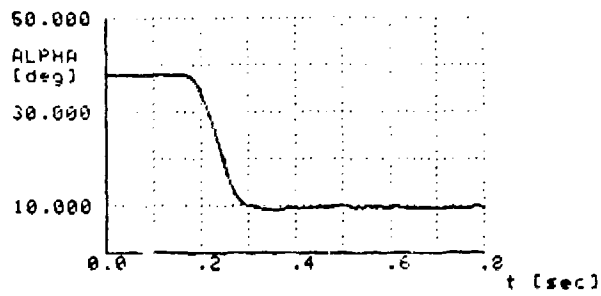




HALF (1-COS) INPUT NOSE DOWN

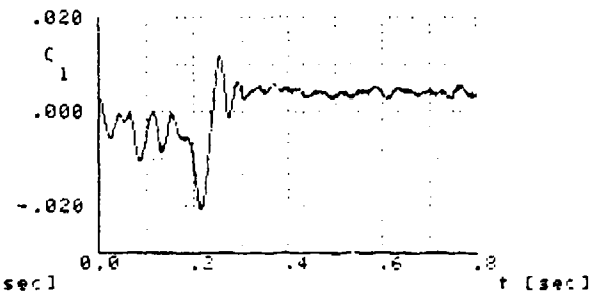
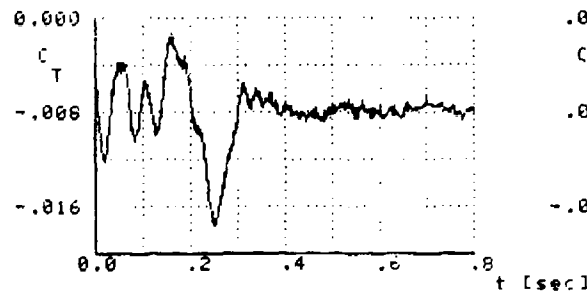
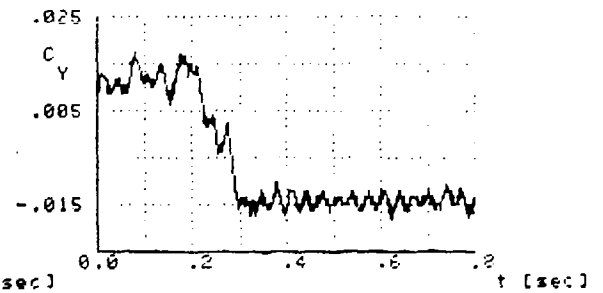
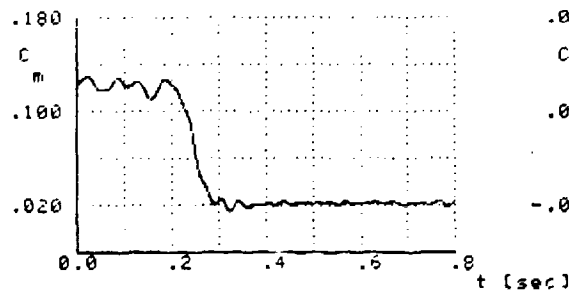
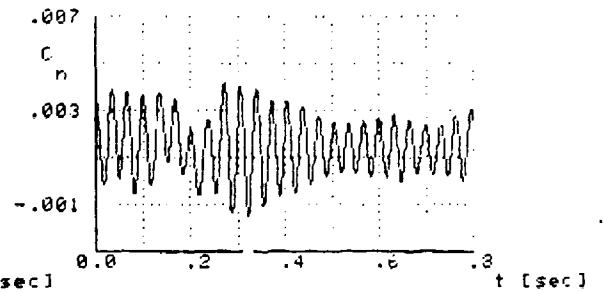
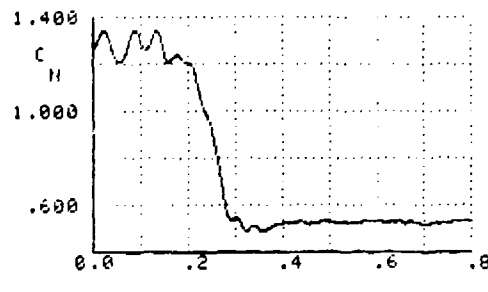
RUN = 3063
 ALPHA₀ = 40 deg
 ΔALPHA = 32 deg
 T/2 = 167 msec

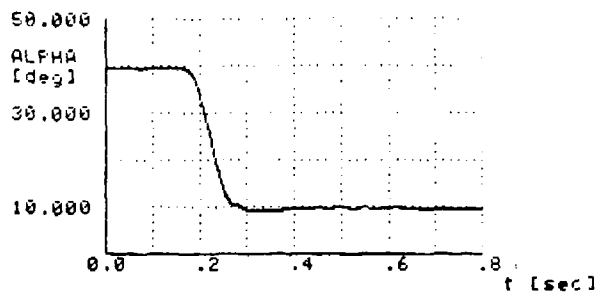




HALF (1-COS) INPUT NOSE DOWN

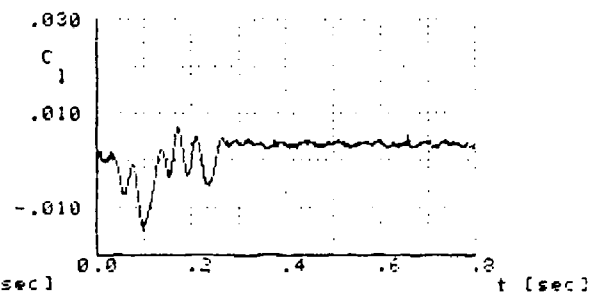
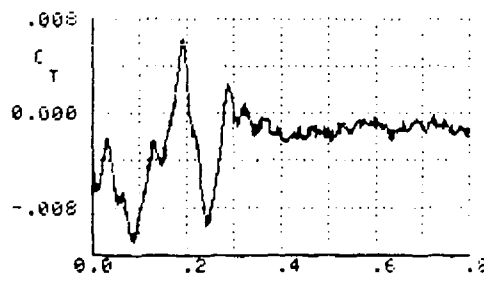
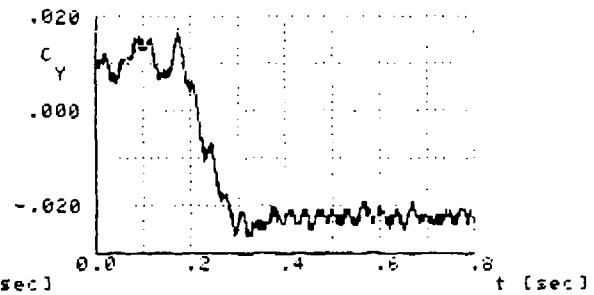
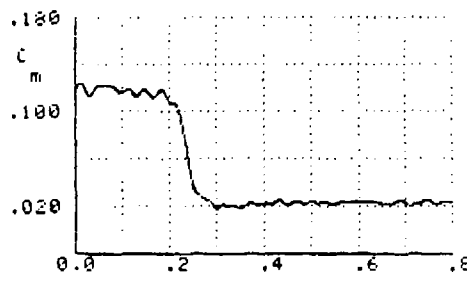
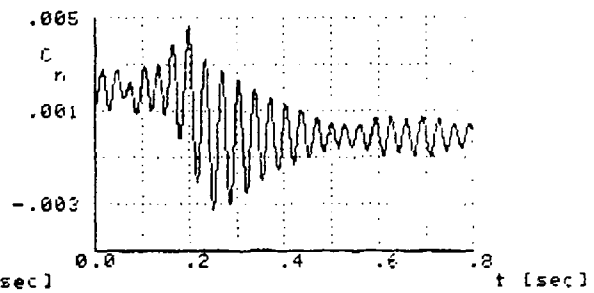
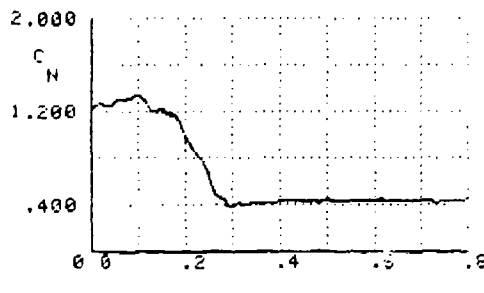
RUN = 3064
 ALPHA_a = 40 deg
 DRALPHA_a = 32 deg
 T/2 = 125 msec

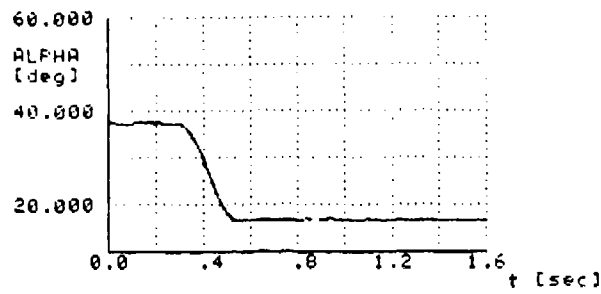




HALF (1-COS) INPUT HOSE DOWN

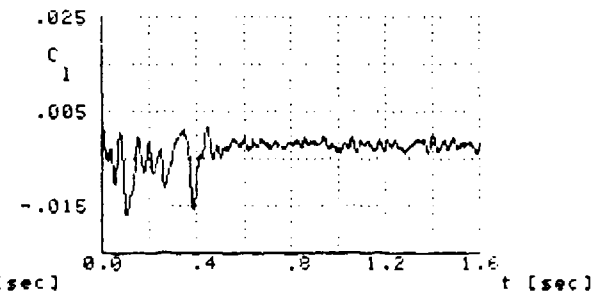
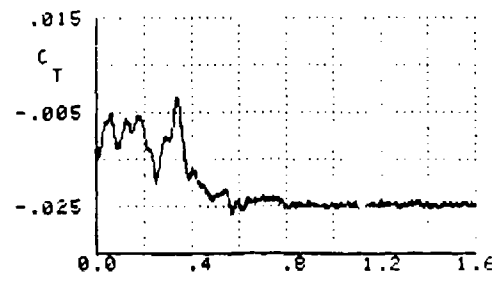
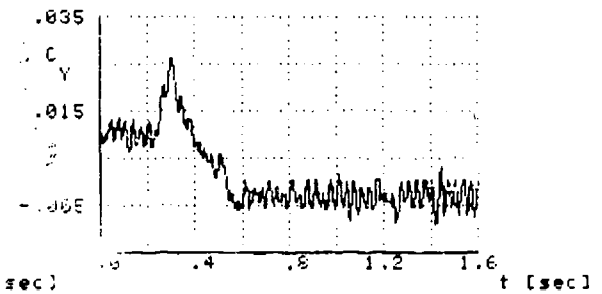
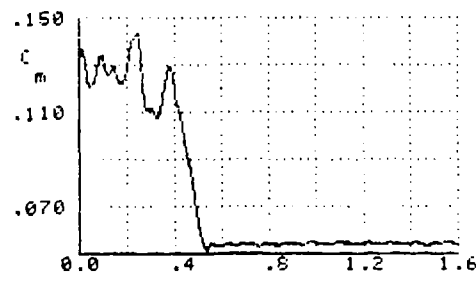
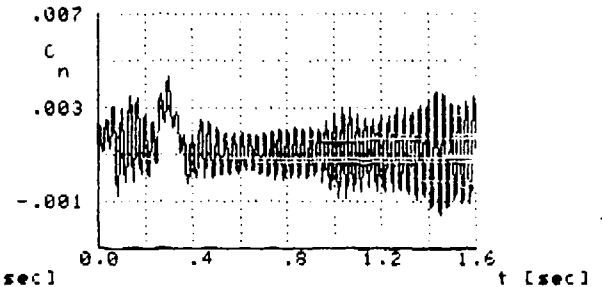
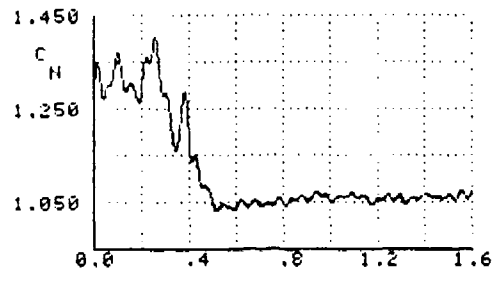
RUN = 3065
 α_a = 40 deg
 $\Delta\alpha_a$ = 32 deg
 $T/2$ = 100 msec

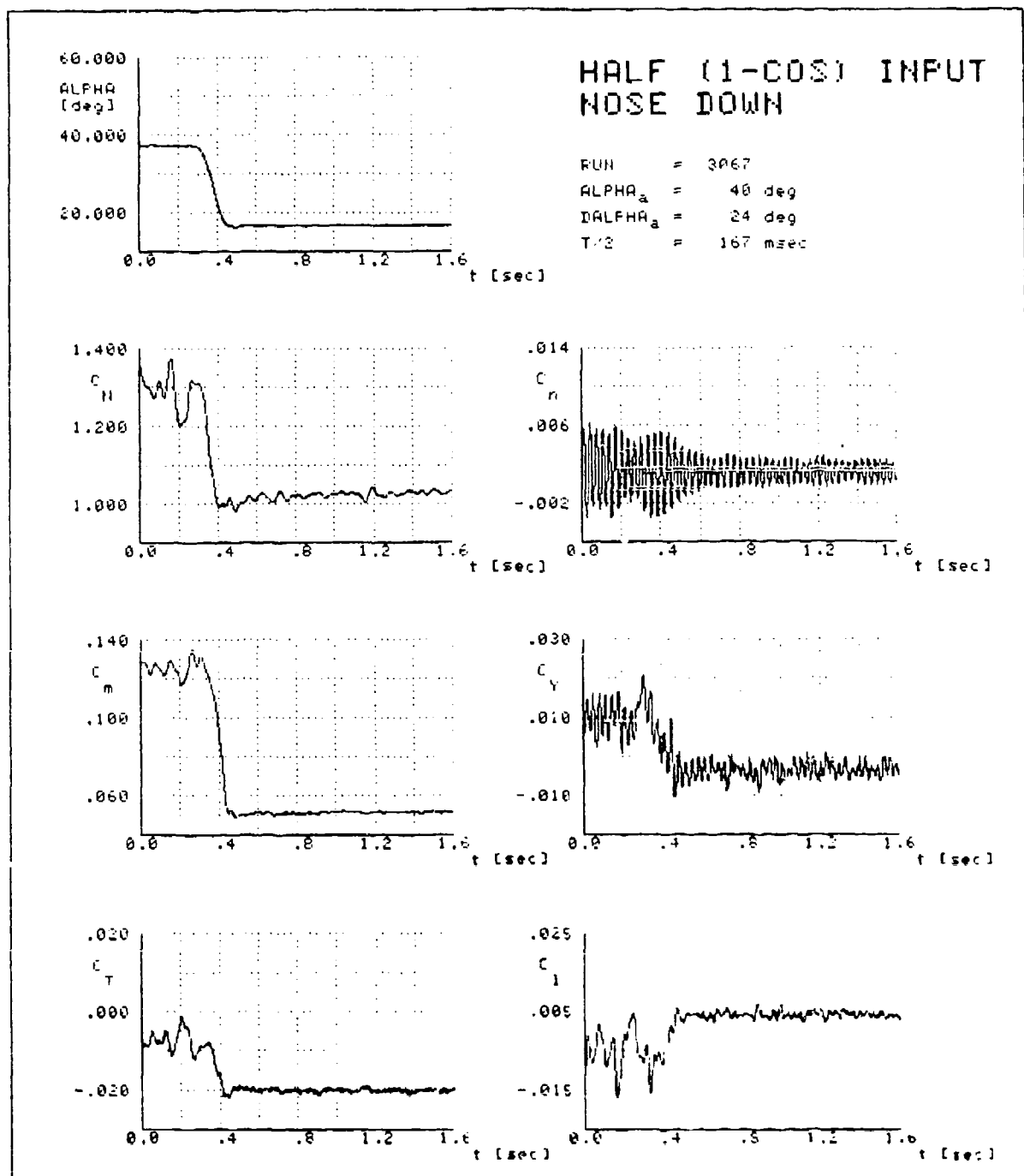


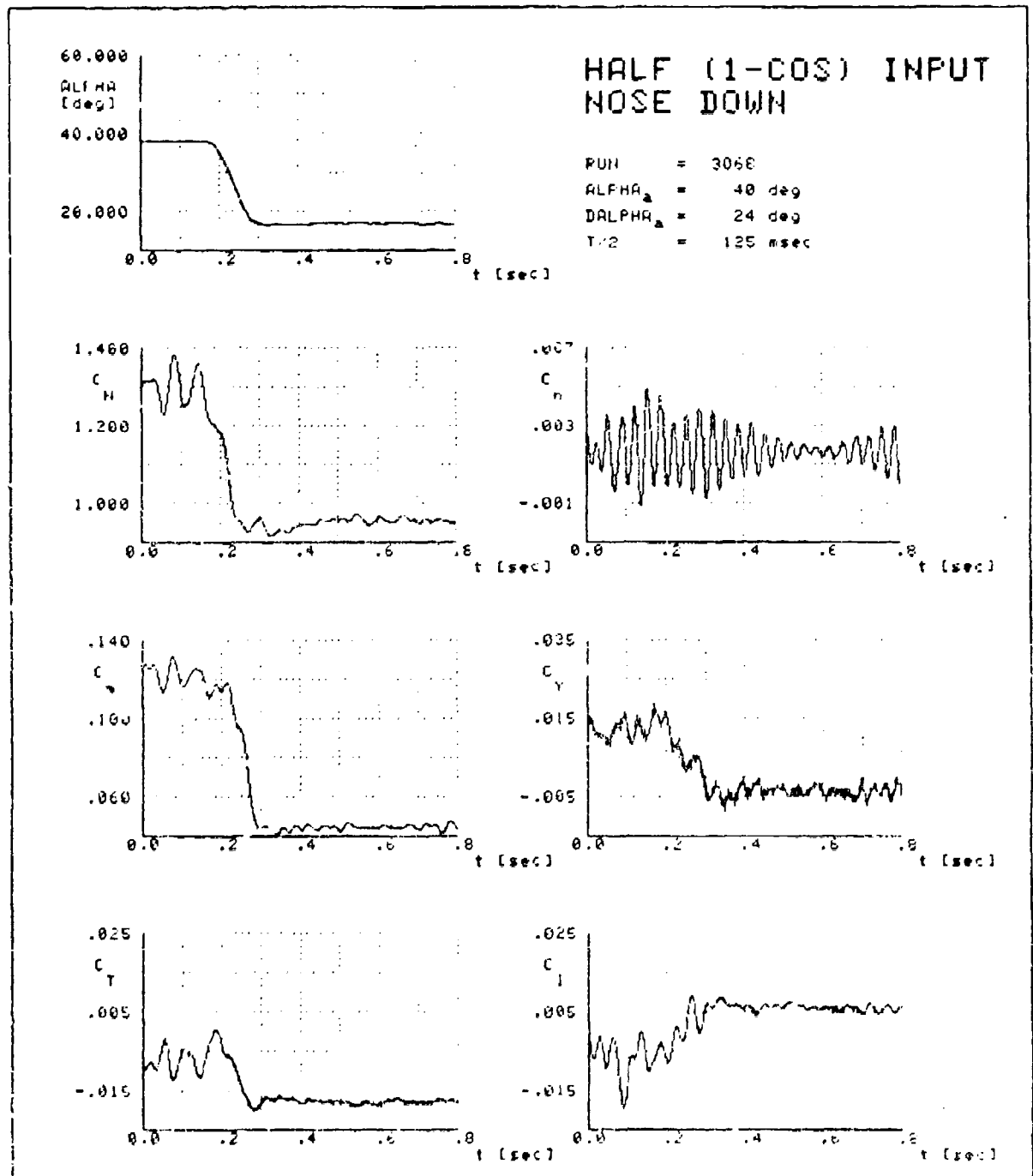


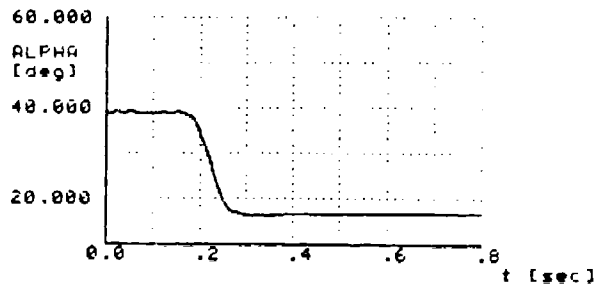
HALF (1-COS) INPUT NOSE DOWN

RUN = 3066
ALPHA_a = 40 deg
DALPHA_a = 24 deg
T/2 = 250 msec



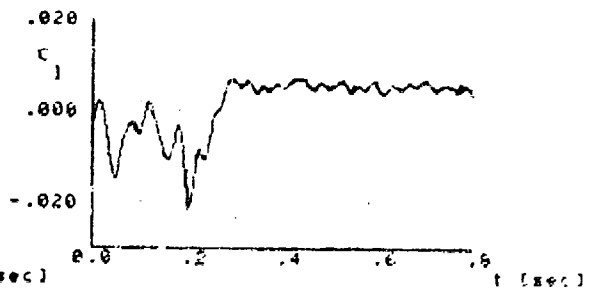
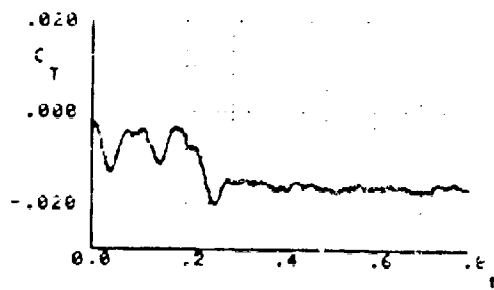
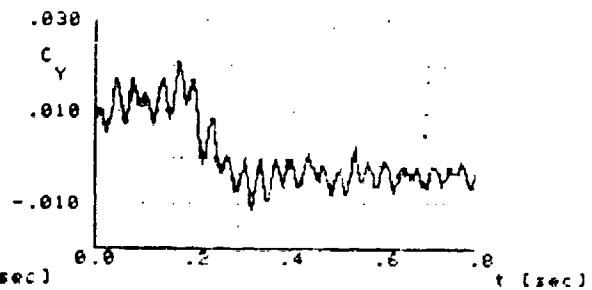
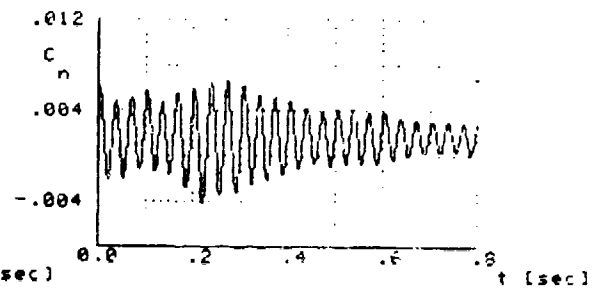
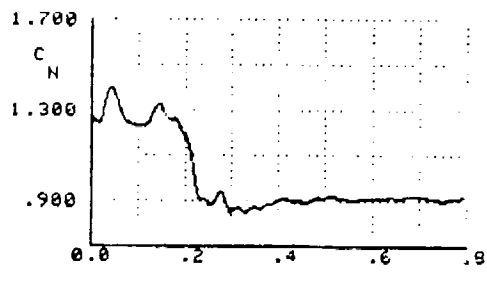


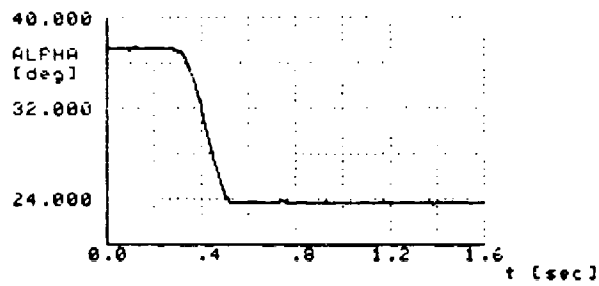




HALF (1-COS) INPUT NOSE DOWN

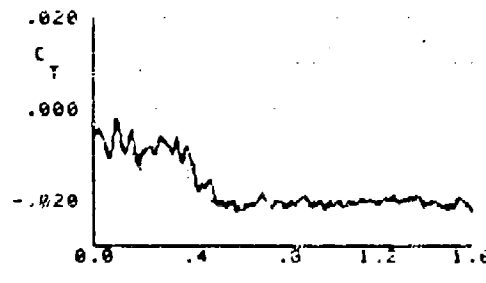
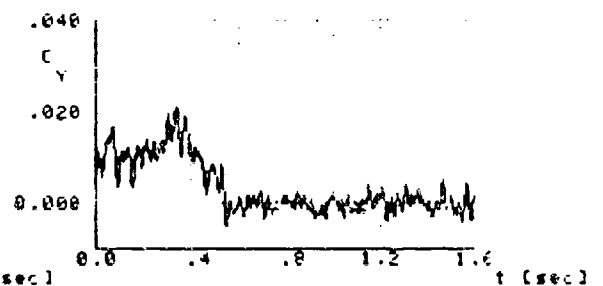
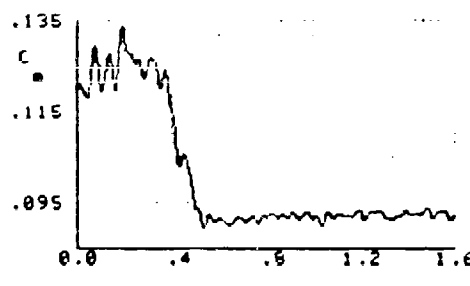
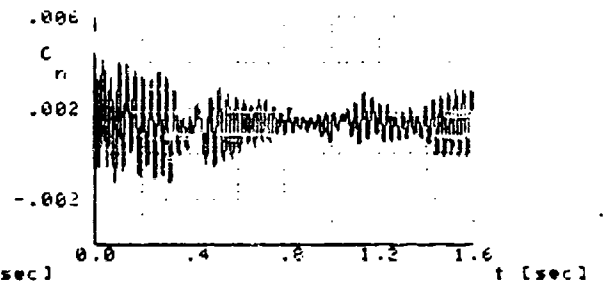
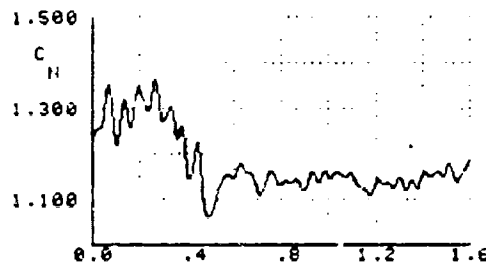
RUN = 3009
 ALPHA_a = 40 deg
 ΔALPHA_a = 24 deg
 T/2 = 100 msec

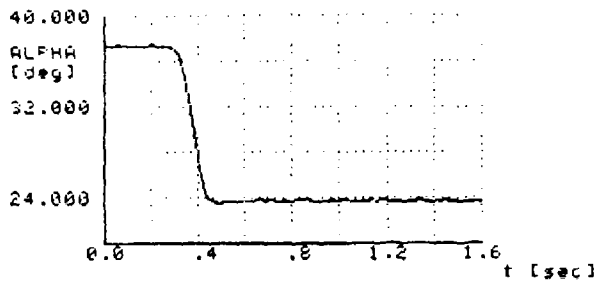




HALF (1-COS) INPUT NOSE DOWN

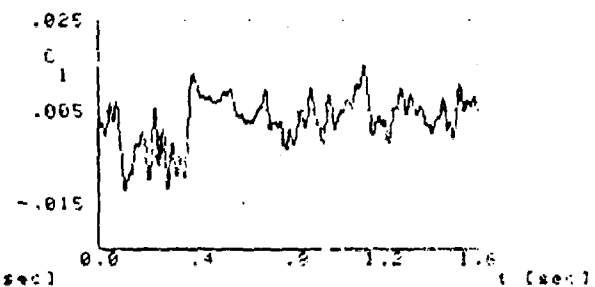
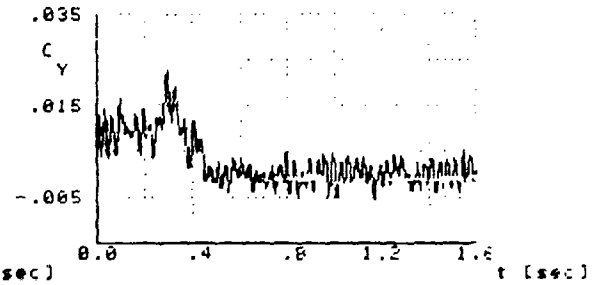
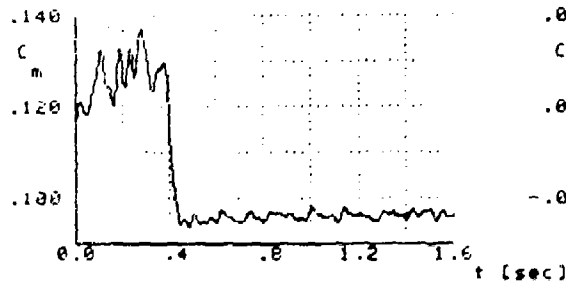
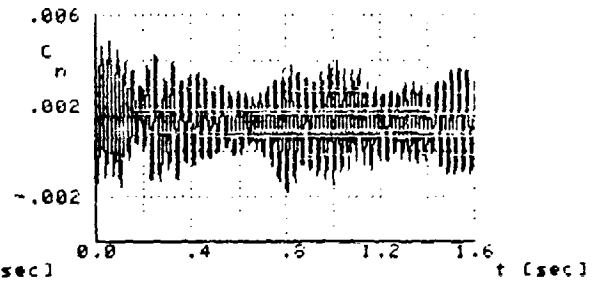
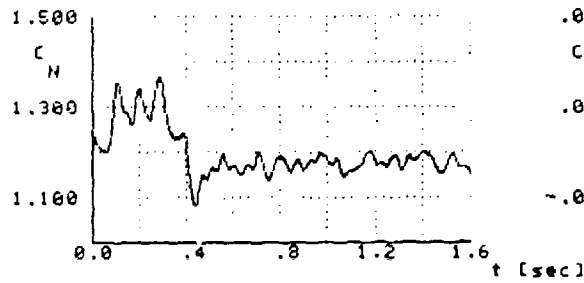
RUN = 3070
 ALPHA = 40 deg
 DIALPHA = 15 deg
 T/2 = 250 msec

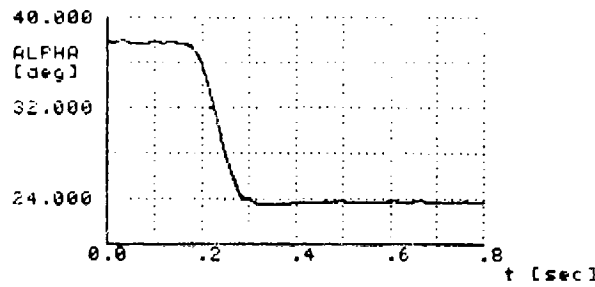




HALF (1-COS) INPUT
NOSE DOWN

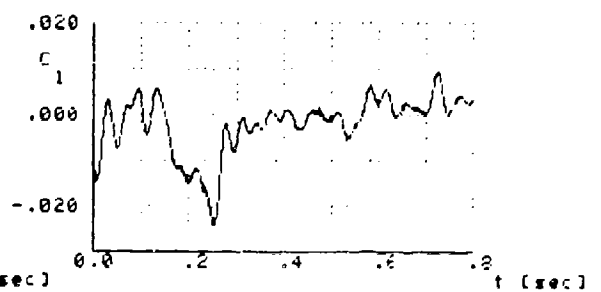
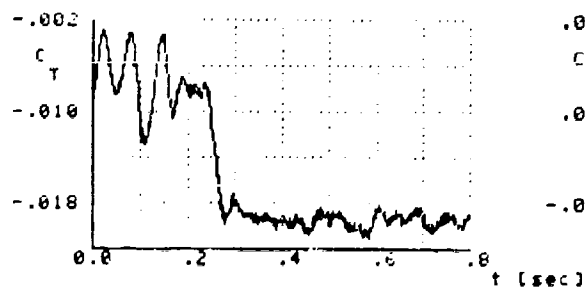
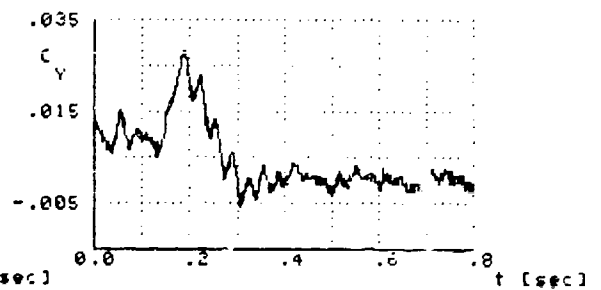
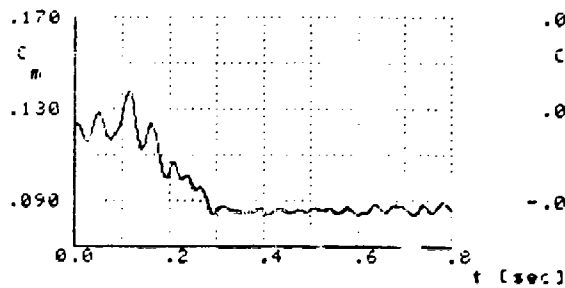
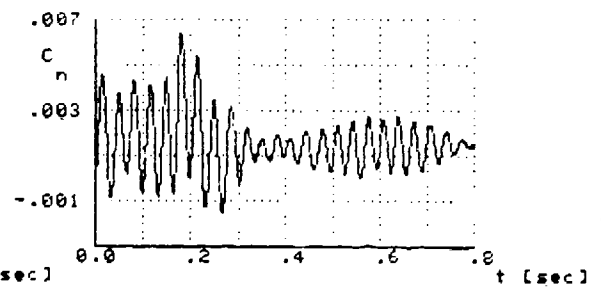
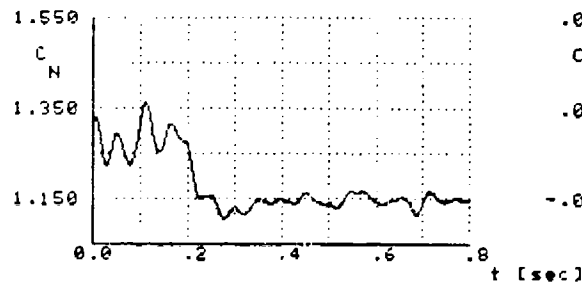
RUN = 3071
ALPHA₀ = 40 deg
DALPHA₀ = 16 deg
T/2 = 167 msec

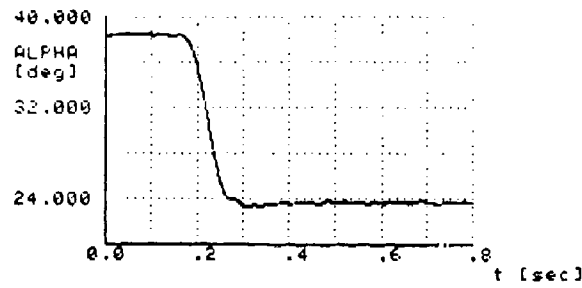




HALF (1-COS) INPUT NOSE DOWN

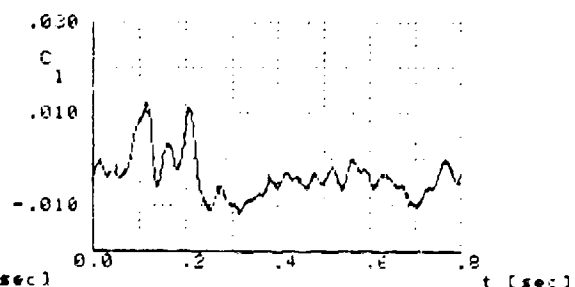
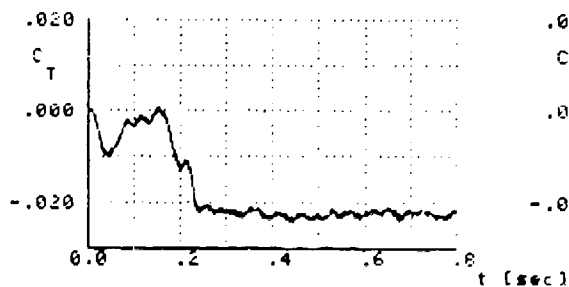
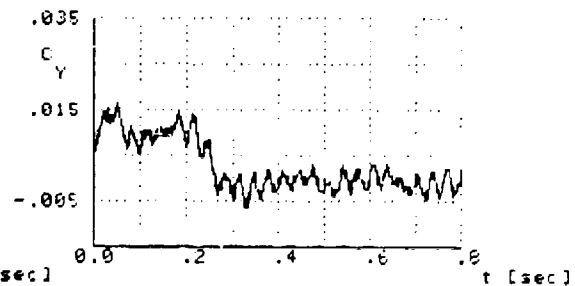
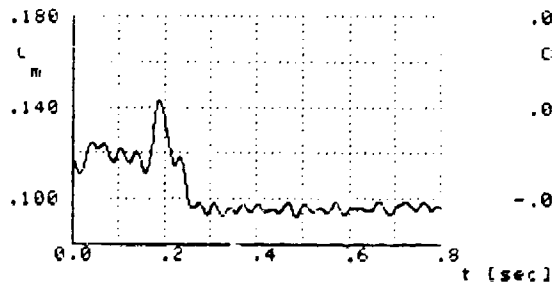
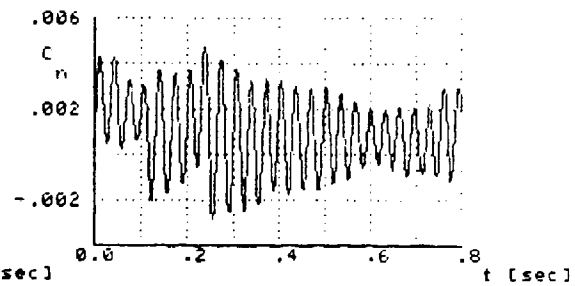
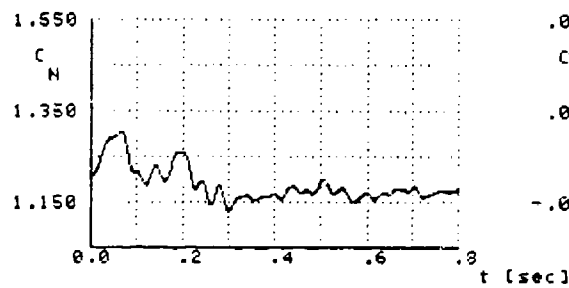
RUN = 3072
ALPHA_a = 40 deg
DALPHA_a = 16 deg
T/2 = 125 msec

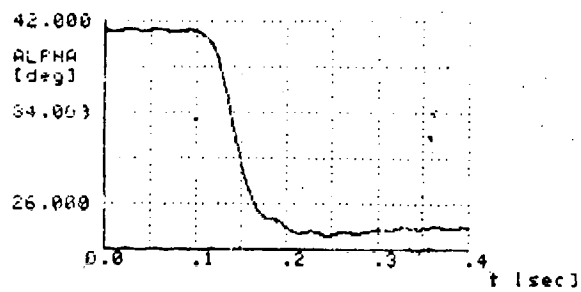




HALF (1-COS) INPUT NOSE DOWN

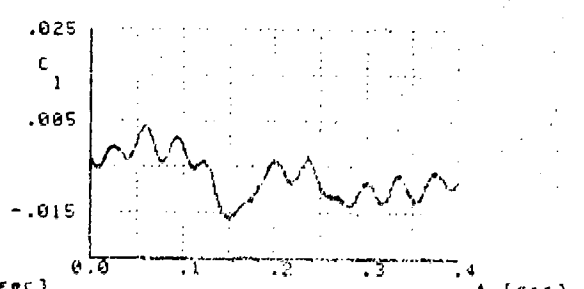
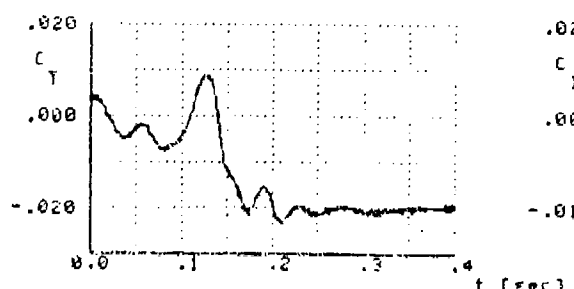
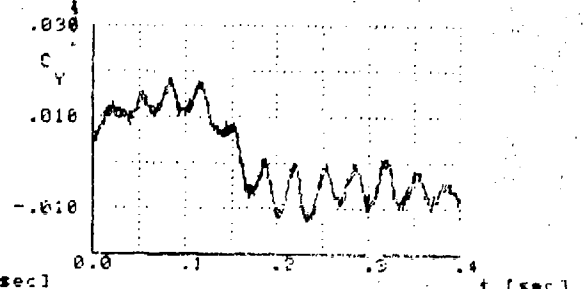
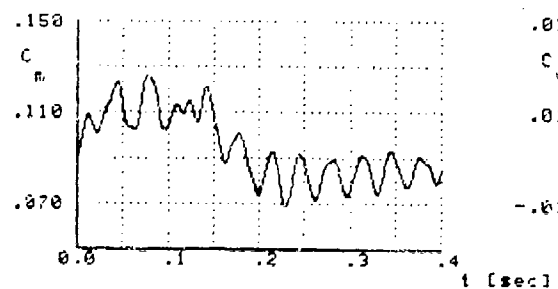
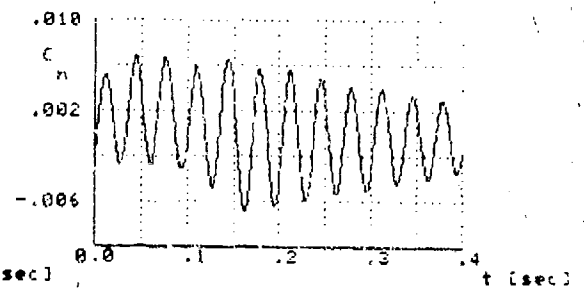
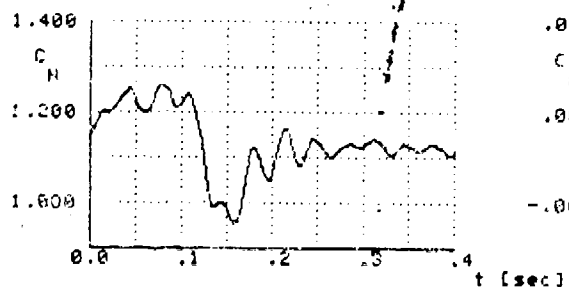
RUN = 3073
ALPHA₀ = 40 deg
ΔALPHA₀ = 16 deg
T/2 = 100 msec

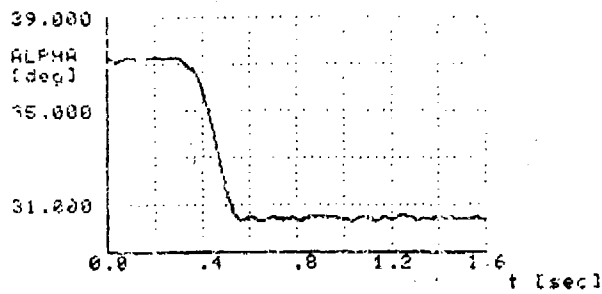




HALF (1-COS) INPUT NOSE DOWN

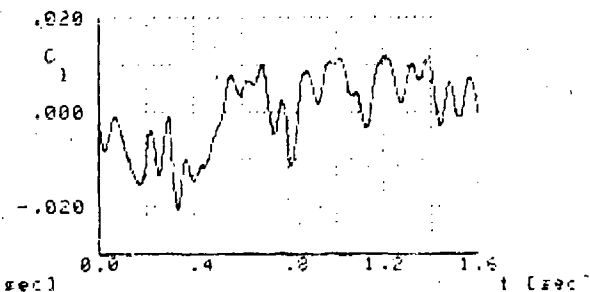
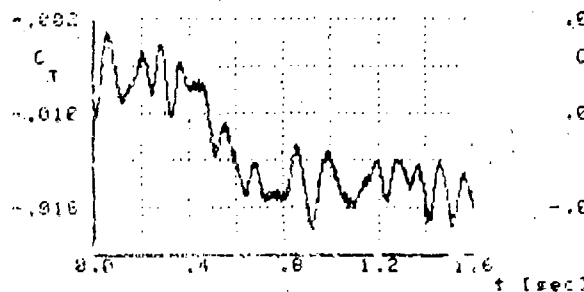
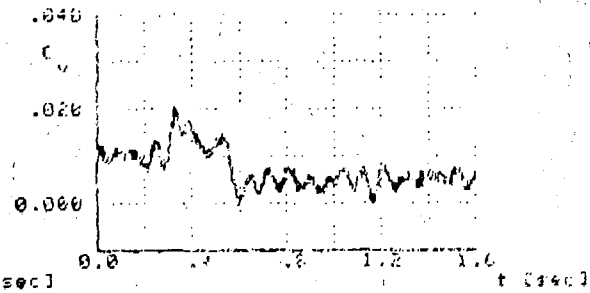
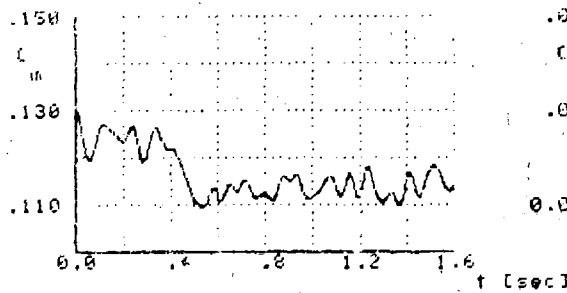
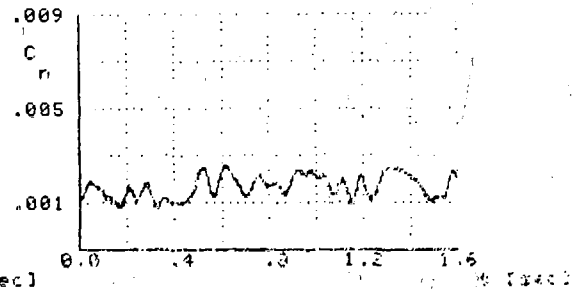
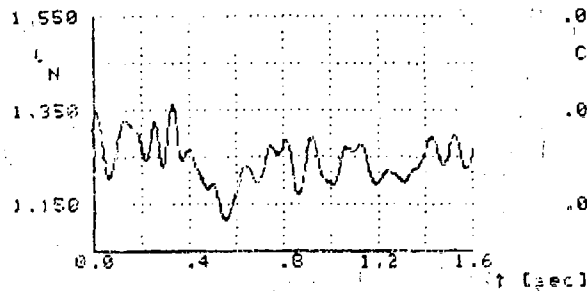
RUN = 3874
ALPHA₀ = 40 deg
DRALPHA₀ = 16 deg
T/2 = 63 msec

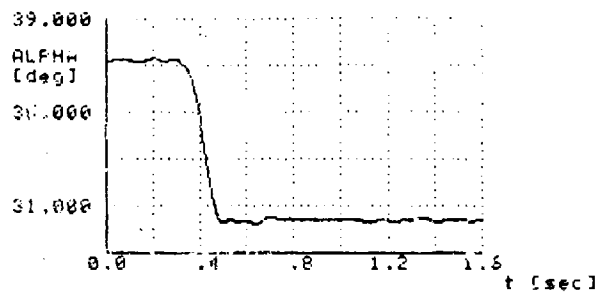




HALF (1-COS) INPUT NOSE DOWN

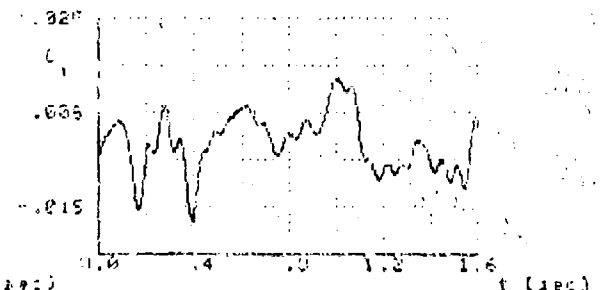
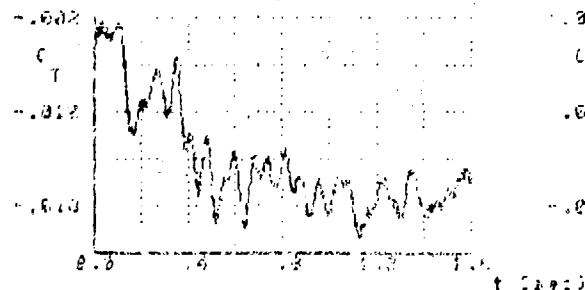
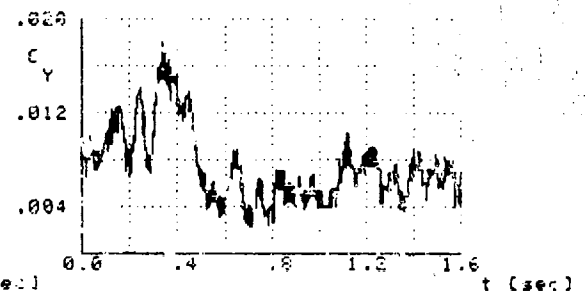
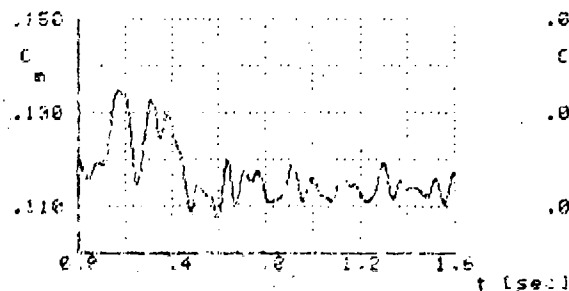
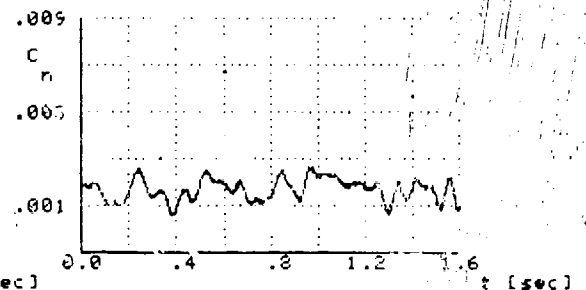
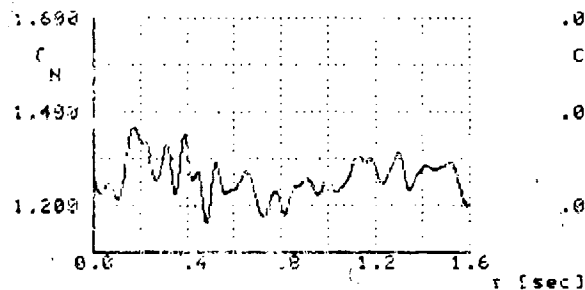
RUN = 3075
 ALPHA₀ = 40 deg
 ΔALPHA_a = 8 deg
 T/2 = 250 msec

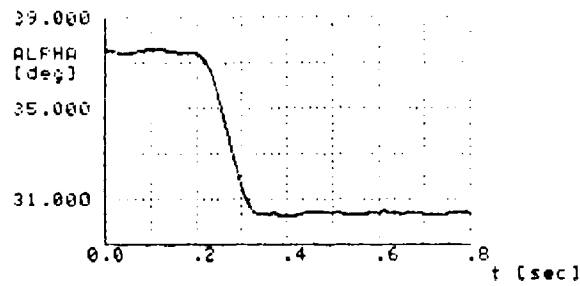




HALF (1-COS) INPUT NOSE DOWN

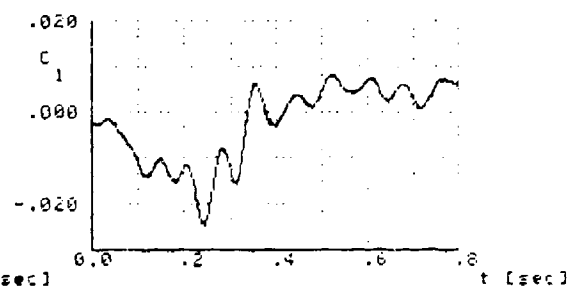
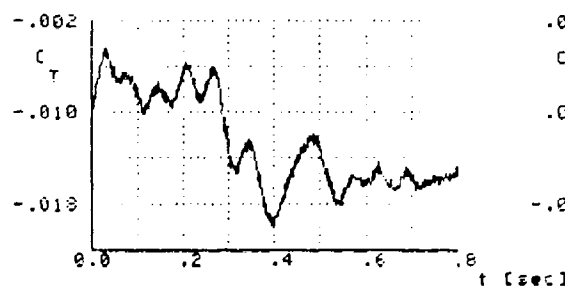
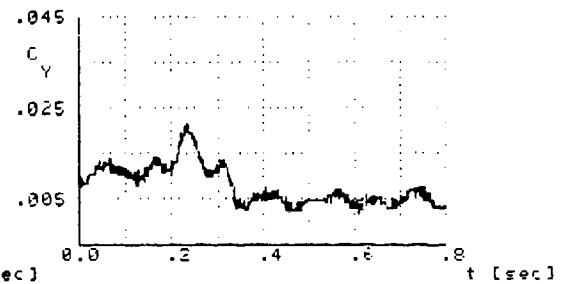
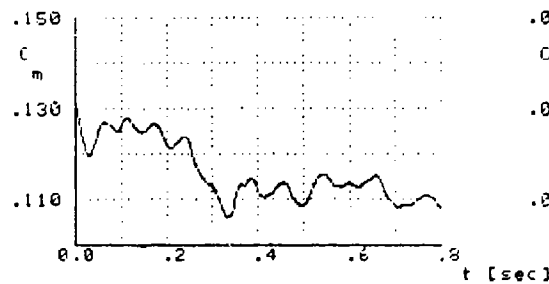
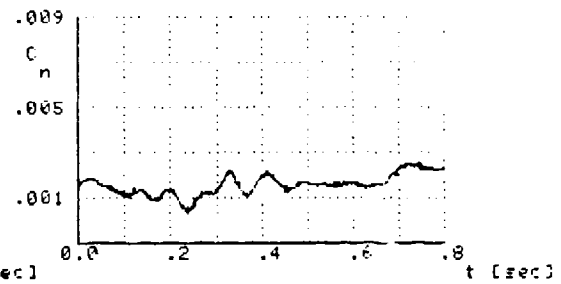
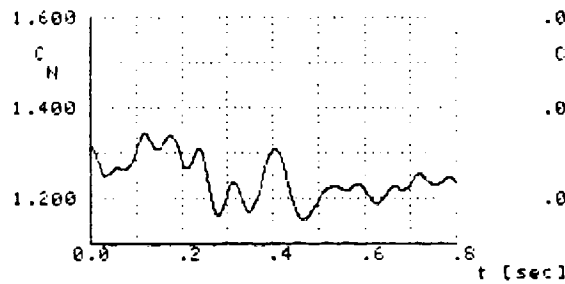
RUN = 3976
ALPHA₀ = 40 deg
DALPHA₀ = 8 deg
T/2 = 167 msec

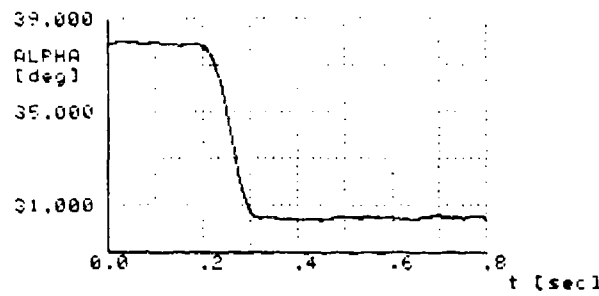




HALF (1-COS) INPUT NOSE DOWN

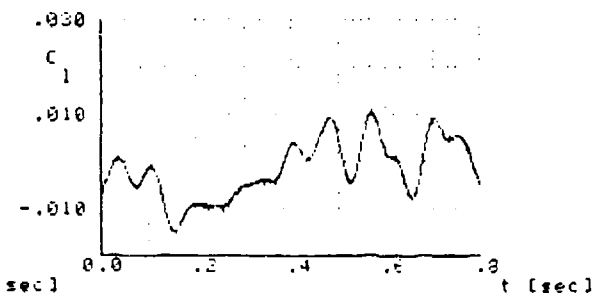
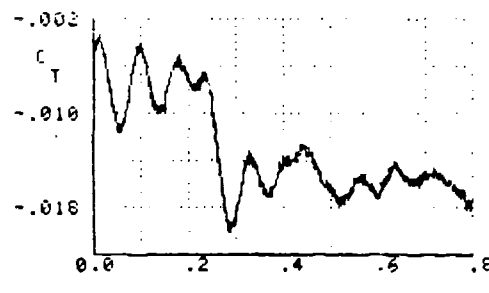
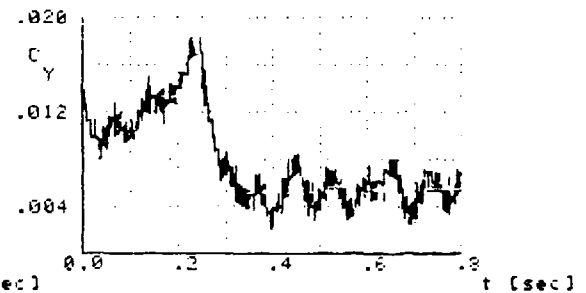
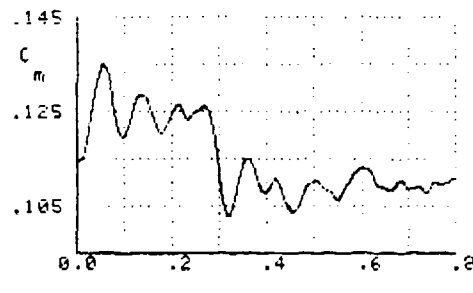
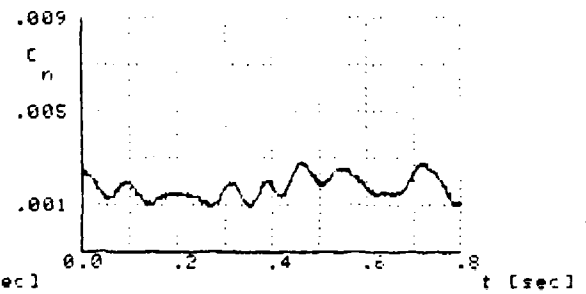
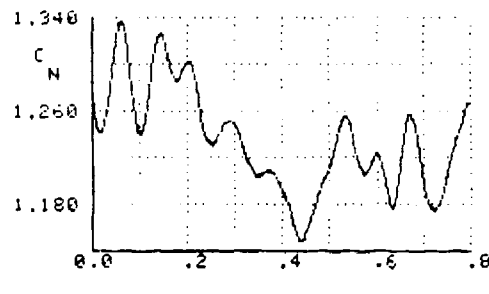
RUN = 3077
 α_a = 40 deg
 $\Delta\alpha_a$ = 8 deg
 $T/2$ = 125 msec

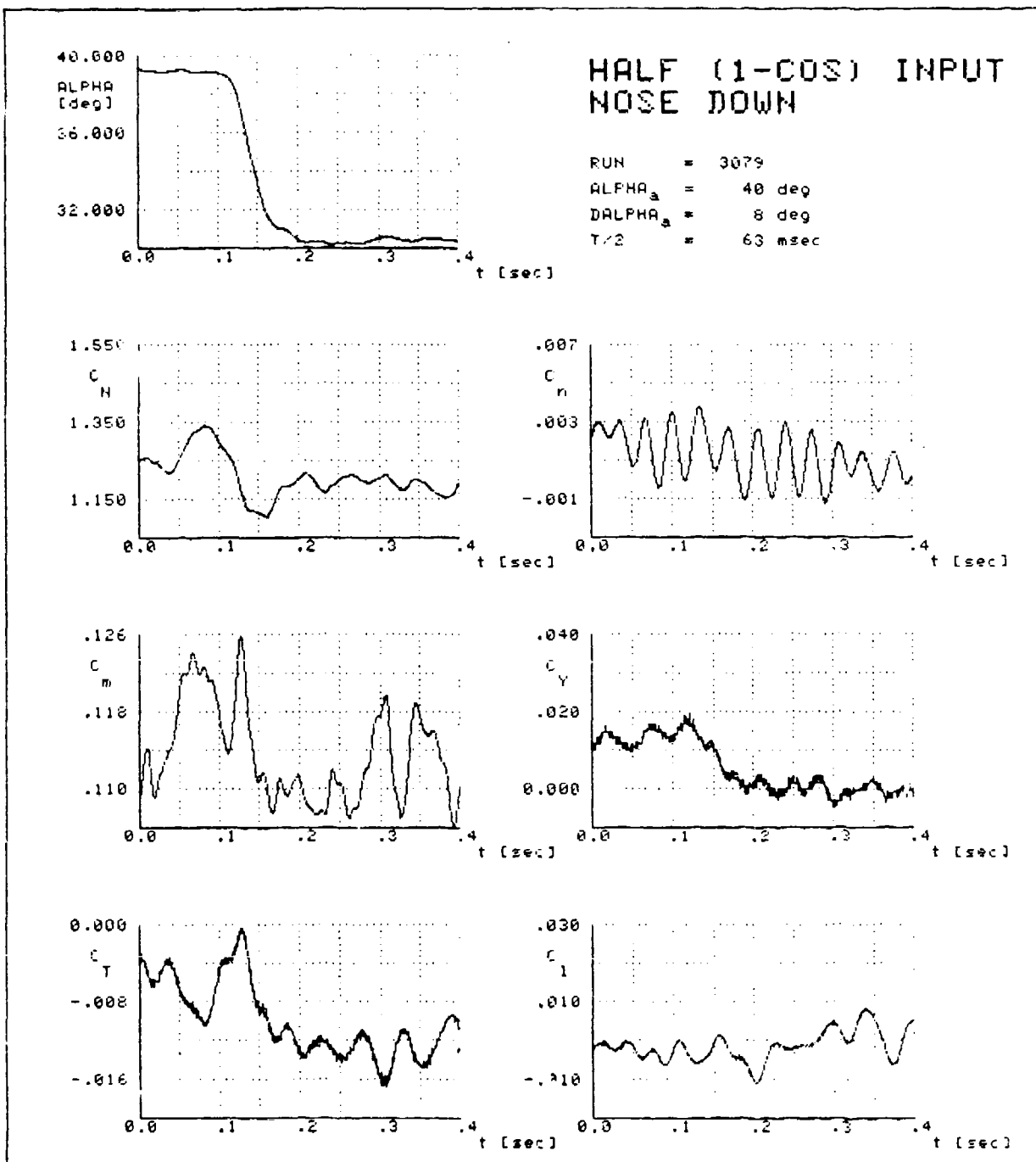


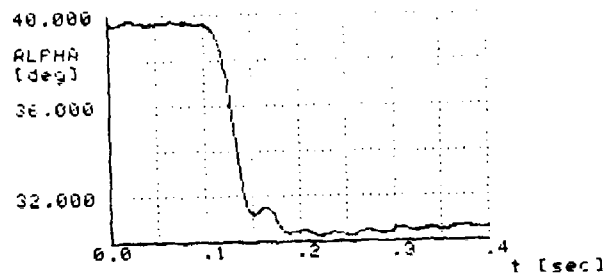


HALF (1-COS) INPUT NOSE DOWN

RUN = 3078
 $\alpha_a = 40$ deg
 $\Delta\alpha_a = 8$ deg
 $T/2 = 100$ msec

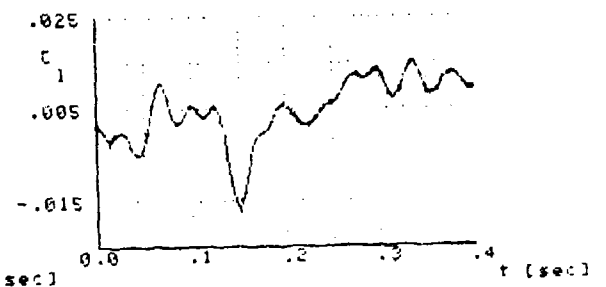
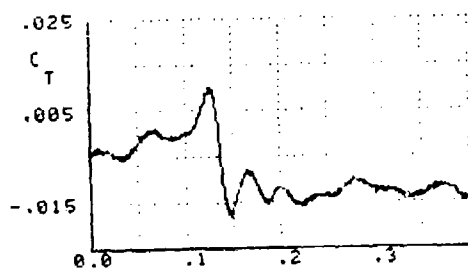
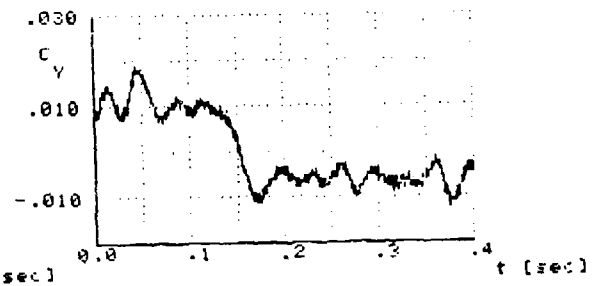
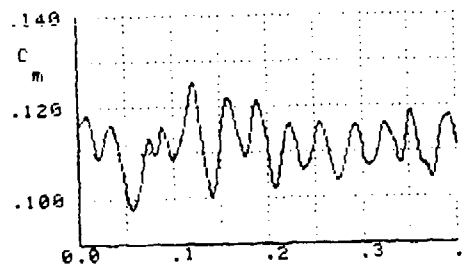
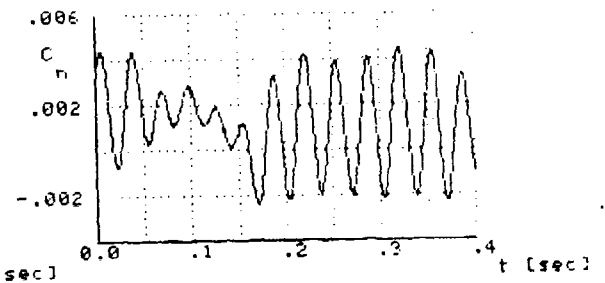
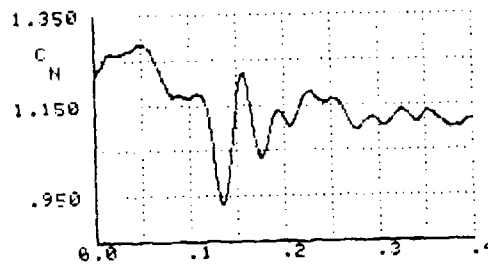




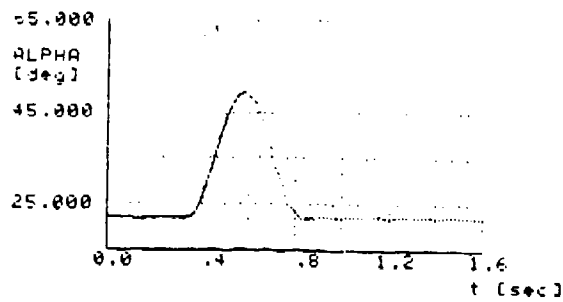


HALF (1-COS) INPUT NOSE DOWN

RUN = 3080
 $\alpha_a = 40$ deg
 $\Delta\alpha_a = 8$ deg
 $T/2 = 42$ msec

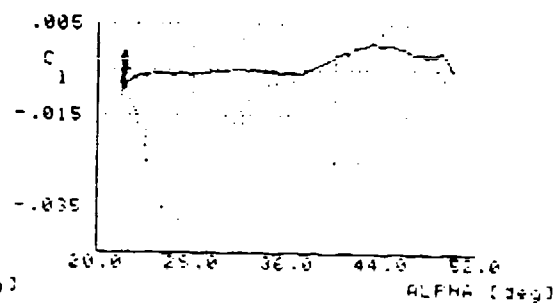
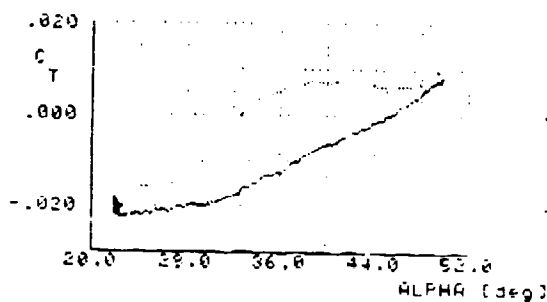
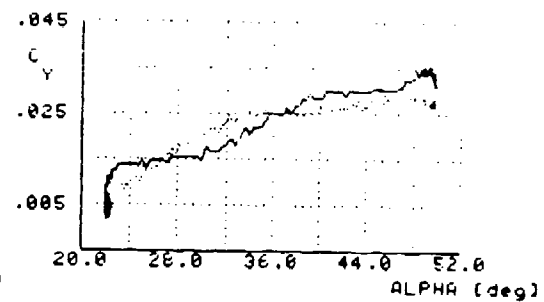
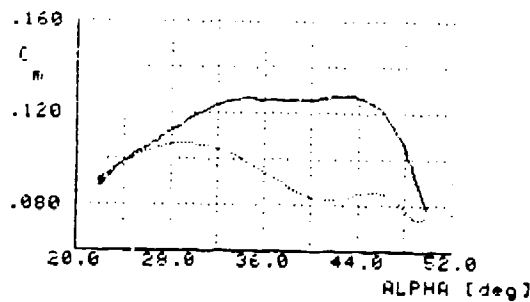
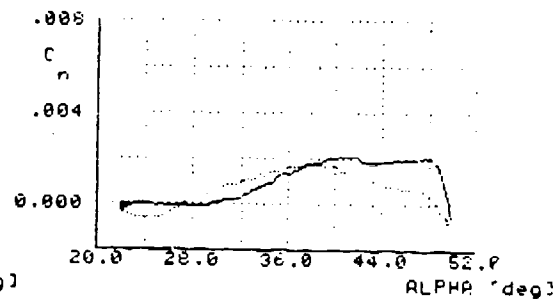
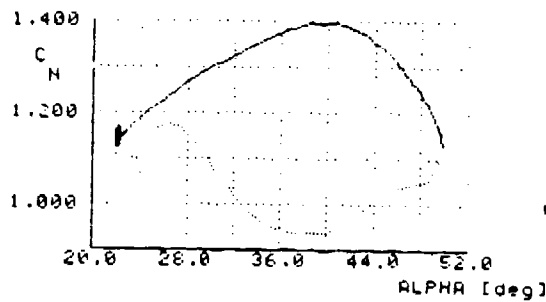


C1



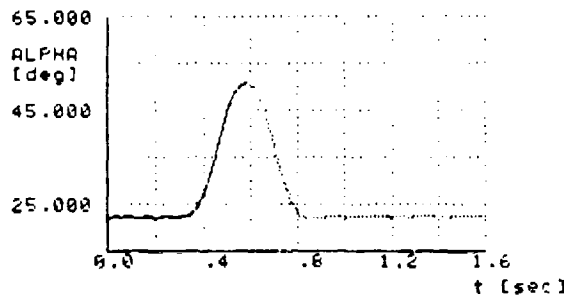
(1-COS) INPUT

RUN = 3028
 ALPHA₀ = 22 deg
 ΔALPHA₀ = 32 deg
 T = 500 msec



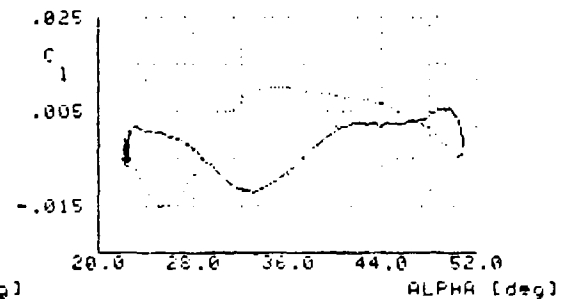
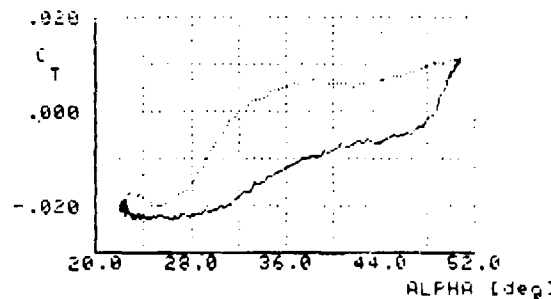
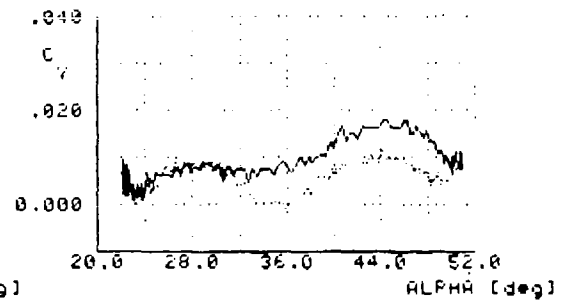
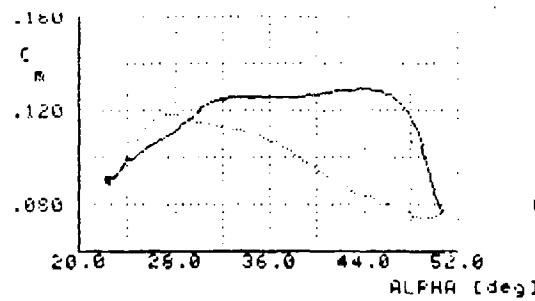
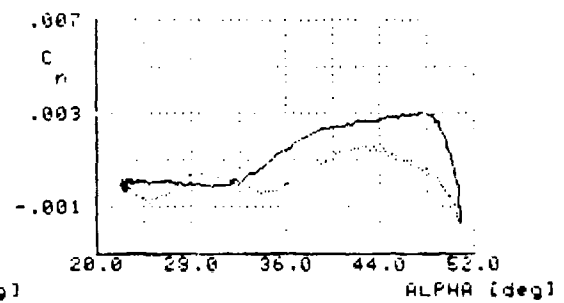
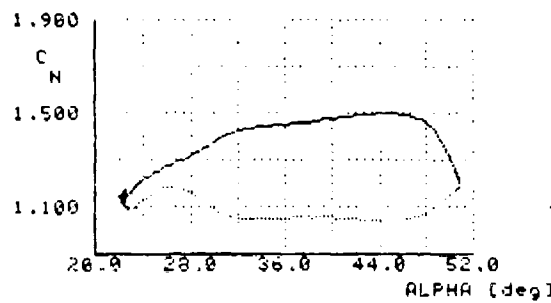
FIRST INPUT

C2



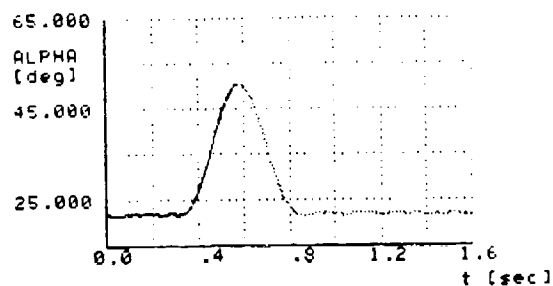
(1-COS) INPUT

RUN = 3028
 ALPHA_a = 22 deg
 DALPHA_a = 32 deg
 T = 500 msec



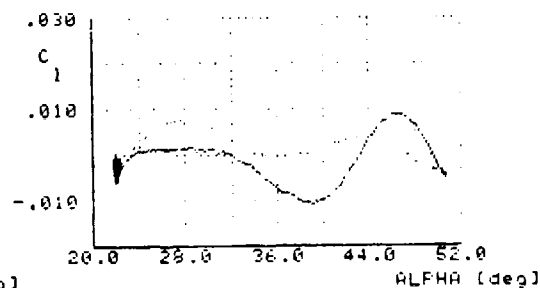
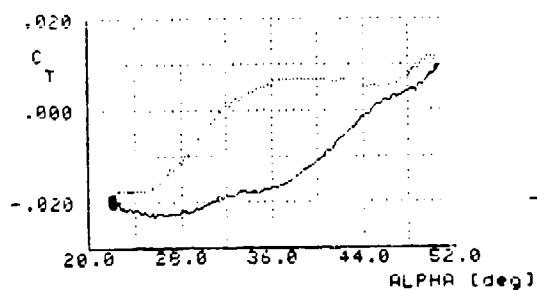
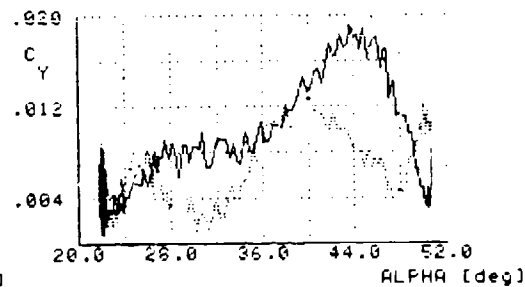
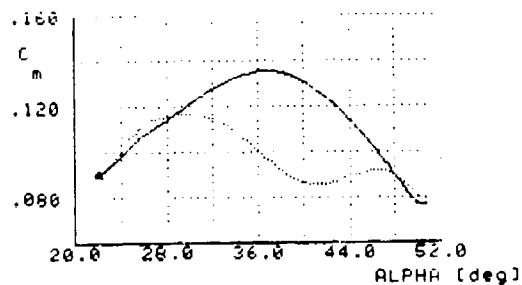
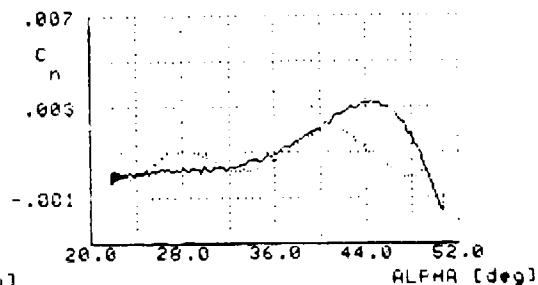
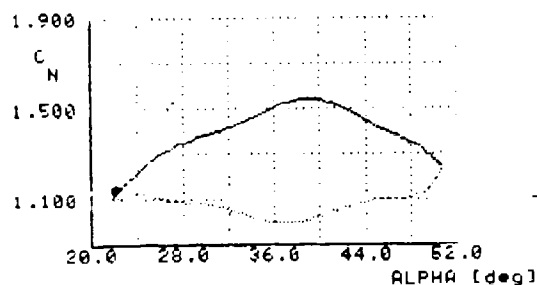
SECOND INPUT

C3



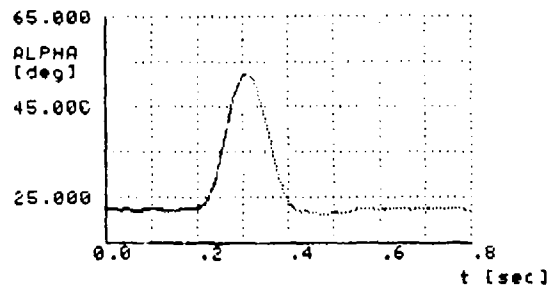
(1-COS) INPUT

RUN = 3020
 ALPHA = 22 deg
 DALPHA = 32 deg
 T = 500 msec



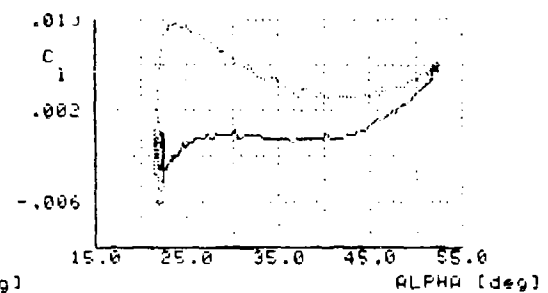
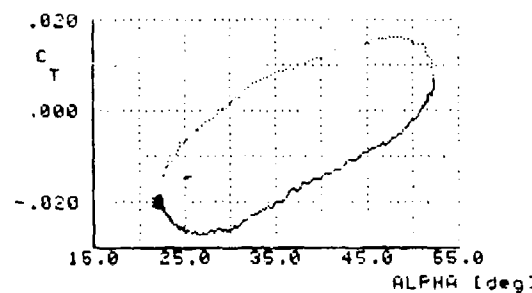
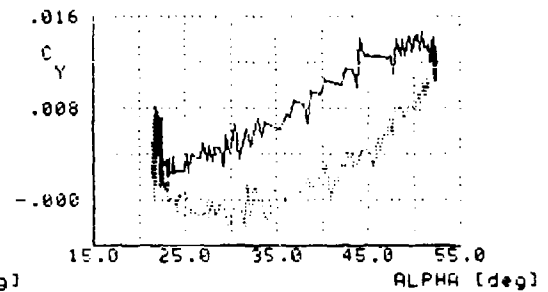
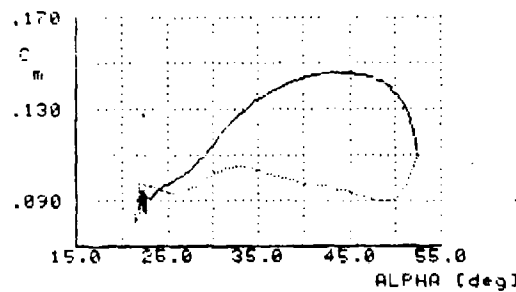
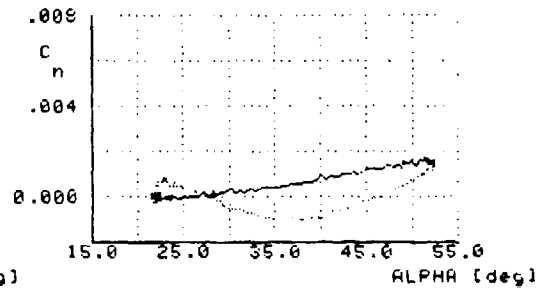
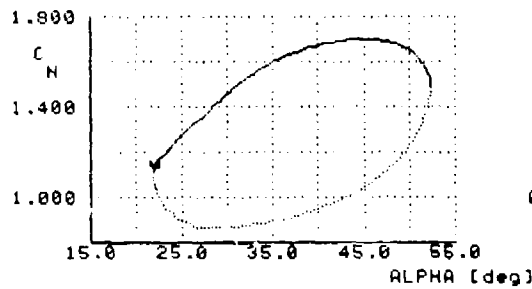
THIRD INPUT

C1



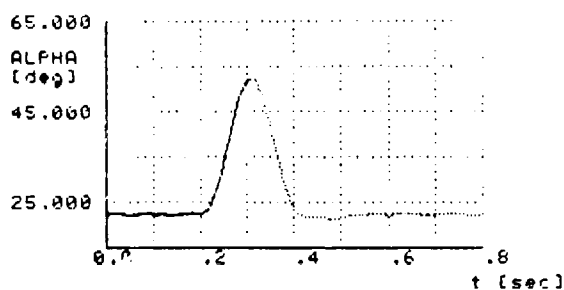
(1-COS) INPUT

RUN = 3831
 ALPHA_a = 22 deg
 ΔALPHA_a = 32 deg
 T = 200 msec



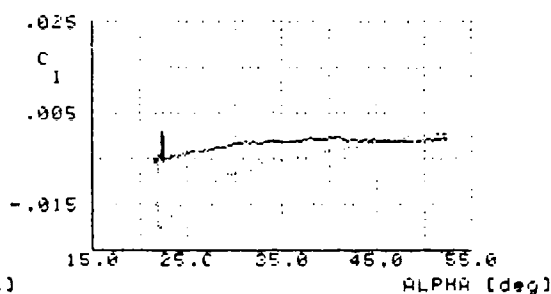
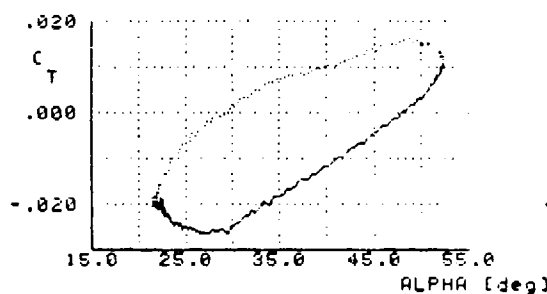
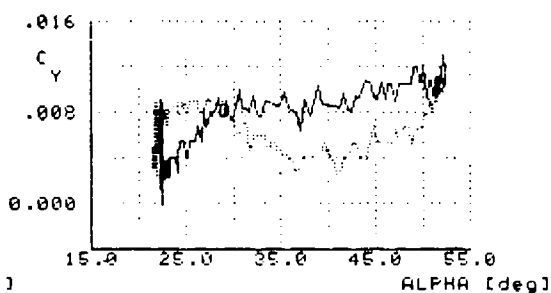
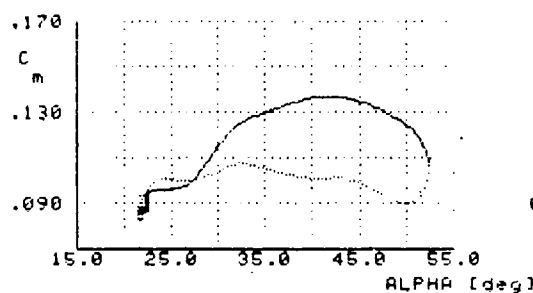
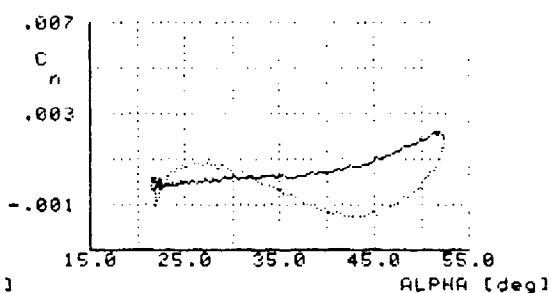
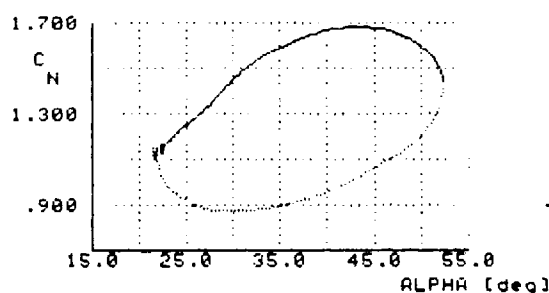
FIRST INPUT

C2



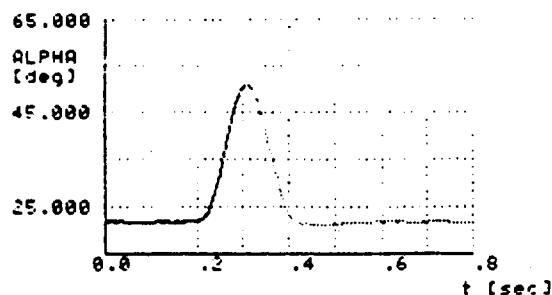
(1-COS) INPUT

RUN = 3031
 ALPHA₀ = 22 deg
 ΔALPHA₀ = 32 deg
 T = 200 msec



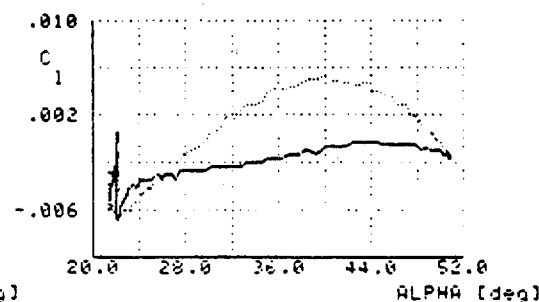
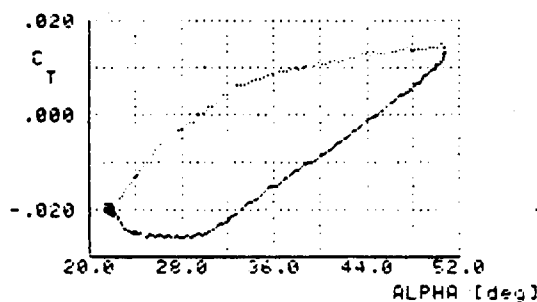
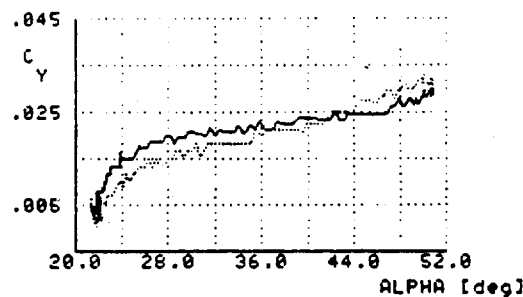
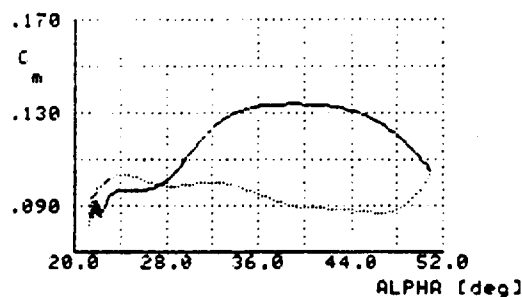
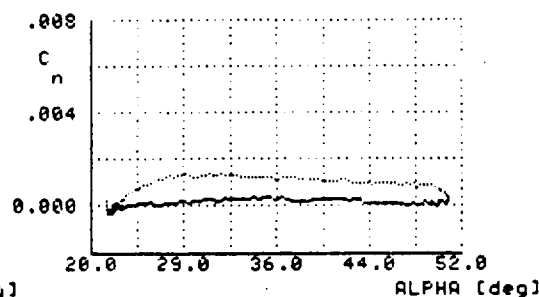
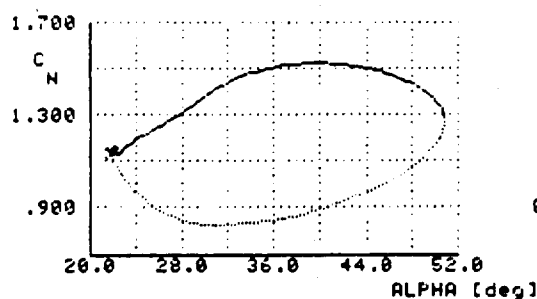
SECOND INPUT

C3



(1-COS) INPUT

RUN = 3031
ALPHA₁ = 22 deg
DALPHA₂ = 32 deg
T = 200 msec



THIRD INPUT