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Summary/Overview of Ejector Engine Theory and Performance -

Volume II Bibliography

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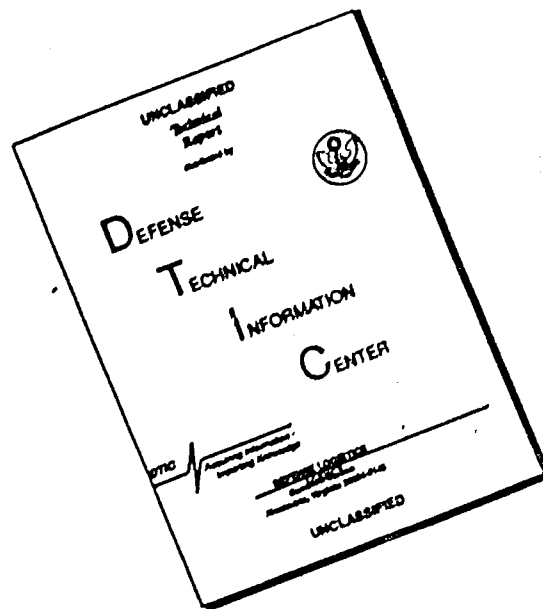
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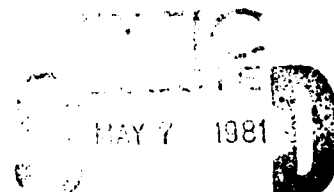


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Enclosure (1) to
R-91100/9CRL-47A

A SUMMARY/OVERVIEW OF EJECTOR AUGMENTOR
THEORY AND PERFORMANCE
PHASE II - TECHNICAL REPORT
ATC REPORT NO. R-91100/9CR-47A
VOLUME II - BIBLIOGRAPHY

by
J. L. Porter
and
R. A. Squyers



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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) The results of a "Summary/Overview of Ejector Augmentor Theory and Performance, Phase II-Technical Report" are presented. In the Volume I-Technical Discussion, the results of the study are presented first in a description of the fundamental considerations relevant to ejector augmentor design and performance and second in a discussion of experimental results for the various components comprising an ejector augmentor: primary nozzles, secondary inlet, mixing section and diffuser. In the theoretical discussion a limit value of static augmentation ratio which depends only on the ratio of primary to secondary stagnation		

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pressure is formulated, and it is shown that the best published experimental results approach 90% of the limit value. In the experimental section extensive data compilations are presented to provide a summary of the predominant geometric and gasdynamic parametric effects on ejector performance.

Four ejector-augmentor flight systems (XFV-12A, XV-4A, XC-8A and the JW-1), are discussed in terms of the research and development programs leading to the prototype/demonstrator vehicles, and the actual vs. predicted performance.

Conclusions regarding ejector technology based on this study are made, and recommendations for needed ejector technology research and development programs are presented.

Volume II - Bibliography, presents an extensive coded list of over 1600 publications relevant to ejectors.

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INTRODUCTION

The bibliography contained in this volume lists reports, articles and texts relevant to ejector technology. The manner in which it was compiled was described in reference 1 of Volume I. To make this extensive listing more usable, three categories have been defined to summarize the main content of the reports. These categories are:

- (1) Basic Operating State
- (2) Primary Subject
- (3) Type of Treatise

A summary description of the reports is provided in the context of these categories, in columns adjacent to the report listing. The categories are further specified by the subjects coded as described below. The meaning of the subjects appearing in the code is defined in more detail in reference 1 of Volume I.

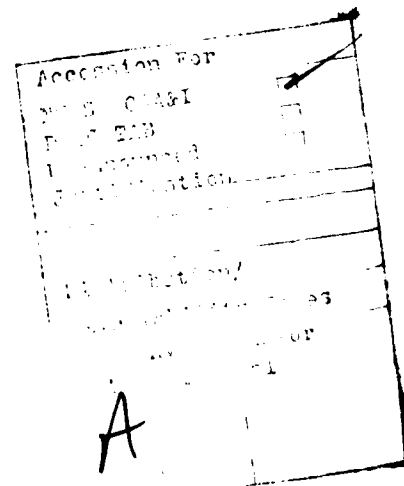
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Column 1 - Basic Operating State

- DPDF - Dual Phase, Dual Fluid
- DPSF - Dual Phase, Single Fluid
- SPDF - Single Phase, Dual Fluid
- SPSF - Single Phase, Single Fluid
- NS - Non-steady or Crypto-steady
- SS - Steady State

Column 2 - Primary Subject

- A - Augmentors
- B - Bibliography
- C - Coanda Effect
- CS - Cooling Systems
- D - Diffusers
- EN - Engine Simulation
- F - Fundamental Flow Phenomenology
- G - General Discussions
- LI - Liquid Injectors
- M - Mixers
- N - Noise, Noise Suppression
- P - Pumps, Compression Devices



- U - Unknown, abstract or report not obtained
- V - V/STOL Aircraft
- W - Wing/Lift
- WT - Wind Tunnels

Column 3 - Type of Treatise

- A - Applications
- E - Experimental Results
- T - Theoretical Discussion

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