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TECHNICAL INFORMATION DIVISION**

TECHNICAL PUBLICATIONS, 1966

(KWIC INDEXED)

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FOREWORD

This bibliography lists 714 technical publications of the U. S. Army Electronics Command prepared during calendar year 1966. The citations are grouped by organizational element. Two indexes are provided: a Key Word in Context (KWIC) index for retrieval of titles by subject area, and an author index. U.S. patents granted to ECOM personnel are listed separately.

Among the broad subject areas covered in the bibliography are: electronic engineering, communications, automatic data processing systems, combat surveillance, avionics, navigation, atmospheric sciences, electronic warfare, electronic components, power sources, materials, and related fields of physics and mathematics.

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The Key Word in Context (KWIC) index allows you to find out rapidly and easily if any of the titles in this bibliography contain words of interest.

Merely look for the word in question in the alphabetical list of terms appearing down the center of the page. If that word does not appear, try other related words.

The full title will appear surrounding each key word. In some cases, long titles will be cycled back to the beginning of the line.

If the title looks interesting, you will find full bibliographic identification of the item, by number, in the Bibliography section of this report.

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- 376 RADIATION-RESISTANT SINGLE SIDE-BAND QUARTZ CRYSTAL UNITS#
BY: STANLEY, J.
TECHNICAL REPORT ECOM 2689, MARCH 1966
ORDERING CODE: 2 AD-481 968, AMSEL-KL-SP
- 377 INVESTIGATION OF NOISE IN MAGNETRON INJECTION GUNS#
BY: FISCHER, P.
TECHNICAL REPORT ECOM-2690, MARCH 1966
ORDERING CODE: 2 AD-489 041, AMSEL-KL-TM
- 378 PROPERTIES OF ULTRAFINE GRAINED BATIO3 SUPER PRESSED AT LOW TEMPERATURE#
BY: BRANDMAYR, R. J.
TECHNICAL REPORT ECOM-2719, AUGUST 1966
ORDERING CODE: 1 AD-639 226, AMSEL-KL-EC
- 379 TUNABLE, HIGH POWER FERRITE FREQUENCY DOUBLERS#
BY: WEINER, M.
TECHNICAL REPORT ECOM-2692, APRIL 1966
ORDERING CODE: 1 AD-631 842, AMSEL-KL-TM
- 380 ATOMIC BEAM PREPARATION TECHNIQUES FOR HYDROGEN MASER OPERATION WITH UNPOLARIZED ATOMS#
BY: ANDRESEN, M. G. PANNACI, E.
TECHNICAL REPORT ECOM-2720, JUNE 1966
ORDERING CODE: 1 AD-636 582, AMSEL-KL-SM FULTON, J. N.
- 381 OPERATION OF THE INTEGRATED DISTRIBUTED AMPLIFIER TYPE Z-5278#
BY: CHREPTA, M. M.
TECHNICAL REPORT ECOM-2723, JUNE 1966
ORDERING CODE: 1 AD-637 304, AMSEL-KL-TS
- 382 LOW-COST, HIGH-ENERGY CATHODES FOR MAGNESIUM PERCHLORATE BATTERIES#
BY: ALMERINI, A. L.
TECHNICAL REPORT ECOM-2694, APRIL 1966
ORDERING CODE: 1 AD-634 100, AMSEL-KL-PF
- 383 PERFORMANCE OF P-N JUNCTION GALLIUM ARSENIDE AVALANCHE (TRANSIT TIME) OSCILLATORS#
BY: HIGGINS, V. J. BRAND, F. A.
TECHNICAL REPORT ECOM-2696, APRIL 1966
ORDERING CODE: 1 AD-635 084, AMSEL-KL-SH BARANOWSKI, J. J.

- 384 QUARTZ CRYSTAL UNITS FOR VERY HIGH FREQUENCIES#
BY: GEMBER, E. A.
TECHNICAL REPORT ECOM-2697, APRIL 1966
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- 385 STUDIES OF VACUUM BREAKDOWN BETWEEN MICROB-SIZED AREAS#
BY: NIESLMAN, H.
TECHNICAL REPORT ECOM-2699, APRIL 1966; CONF ON PHYS ELECT, MIT, MARCH 1966; 2ND INTL SYMP ON INSULATION OF HIGH VOLTAGE, MIT, SEPT 1966
ORDERING CODE: 1 AD-634 761, ANSEL-KL-TQ
- 386 EVALUATION OF THE NOUVISTON TRIODE TYPE 8856#
BY: MUESSLE, W. G.
TECHNICAL REPORT ECOM-2700, APRIL 1966
ORDERING CODE: 1 AD-634 089, ANSEL-KL-TS
- 387 AERIAL INSTALLATION OF CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL C
X-4243C J/G#
BY: POMERANTZ, M. ROGERS, F.
TECHNICAL REPORT ECOM-2711, MAY 1966
ORDERING CODE: 1 AD-635 094, ANSEL-KL-EE
- 388 DEPOSITION TECHNIQUES FOR THIN FILM PASSIVE PARTS#
BY: PRATT, I. H.
TECHNICAL REPORT ECOM-2725, JULY 1966
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- 389 INVESTIGATION OF PLASMA GENERATORS FOR MICROWAVE DEVICES#
BY: WEINER, M. TRUE, R. M. EDWARDS, E. V.
TECHNICAL REPORT ECOM-2704, JUNE 1966
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- 390 IMPROVEMENT OF MILITARY RF CONNECTOR DESIGNS FOR INCREASED RELIABILITY
BY: MAYO, W. E.
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- 391 BEHAVIOR OF HYDROGEN MASERS UNDER COHERENT LOW-FREQUENCY ZEEMAN TRANSITION EXCITATION#
BY: ANDRESEN, H. G.
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ORDERING CODE: 1 AD-636 727, ANSEL-KL-SM
- 392 MICROWAVE TRANSISTOR AMPLIFIER RESEARCH#
BY: GELNOVATCH, V.
TECHNICAL REPORT ECOM-2707, JULY 1966
ORDERING CODE: 2 AD-469 165L, ANSEL-KL-SM
- 393 FEASIBILITY STUDY OF TIME SCALE SELECTOR FOR ADAPTER SYNTHESIZER#
BY: GENERAL TECHNOLOGY CORP.
CONTRACT NO. DA-28-043-ANC-00328(E), FEBRUARY 1966
ORDERING CODE: 2 AD-482 141, ANSEL-KL-SM
- 394 LOW COST MICROCIRCUIT NETWORKS#
BY: ELECTRONIC FILMS INC.
CONTRACT NO. DA-28-043-ANC-00284(E), APRIL 1966
ORDERING CODE: 1 AD-632 420, ANSEL-KL-IR
- 395 USE OF MOS TRANSISTORS IN SOLID STATE RADIATION SURVEY METERS#
BY: BRAYDEN, R. BONMAN, D. MCSHERRY, L.
TECHNICAL REPORT ECOM-2661, FEBRUARY 1966
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- 396 LIFE EXPECTANCY OF A NEW MINIATURE POWER RELAY#
BY: FONTANA, W. J.
TECHNICAL REPORT ECOM-2672, MARCH 1966
ORDERING CODE: 1 AD-632 340, ANSEL-KL-EE

- 397 HIGH PERVEANCE GUN STUDY#
BY: LITTON INDUSTRIES
CONTRACT NO. DA-36-039-SC-87313, MAY 1966
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- 398 INVESTIGATION OF ELECTRONIC INTERACTION WITH OPTICAL RESONATORS FOR
MICROWAVE GENERATION AND AMPLIFICATION#
BY: VARIAN ASSOCIATES
CONTRACT NO. DA-28-043-AMC-00480(E), JULY 1966
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BY: PERKIN-ELMER CORP.
CONTRACT NO. DA-28-043-AMC-00474(E), JUNE 1966
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- 400 HOLLOW BEAM FORMATION IN HIGHLY CONFINED ELECTRON FLOWS
BY: ZOTTER, B.
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BY: ITT ELECTRON TUBE DIV.
CONTRACT NO. DA-36-039-AMC-03272(E), JUNE 1966
ORDERING CODE: 2 AD-465 135, AMSEL-KL-TS
- 402 SOLID STATE TECHNIQUES FOR MODULATION AND DEMODULATION OF OPTICAL WA
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BY: TEXAS INSTRUMENTS INC.
CONTRACT NO. DA-36-039-AMC-03250(E), SEPTEMBER 1966
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- 404 RECENT DEVELOPMENTS IN SOLID-STATE MICROWAVE DEVICES#
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- 405 QUARTZ CRYSTAL AGING EFFECTS#
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CONTRACT NO. DA-36-039-AMC-02251(E), FEBRUARY 1966
ORDERING CODE: 1 AD-633 724, AMSEL-KL-SP
- 406 STUDY OF NOISE IN SEMICONDUCTOR DEVICES#
BY: UNIVERSITY OF MINNESOTA
CONTRACT NO. DA-28-043-AMC-01701(E), JULY 1966
ORDERING CODE: 1 AD-636 324, AMSEL-KL-SS
- 407 EFFECT OF TRANSISTOR DESIGN PARAMETERS ON RADIATION RESPONSE, SURFACE
EFFECTS#
BY: HUGHES AIRCRAFT CO.
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- 415 THE HOURGLASS ENERGY DIVERTER#
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- 416 DESIGN OF A HIGH VOLTAGE BREAKDOWN IN VACUUM EXPERIMENT#
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BY: SCOVILLE, T. F.
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- 419 LOW-LEVEL, CROSSED FIELD NOISE STUDY#
BY: HANTLEY, J. H.
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- 420 EFFECTS OF FINITE BEAM SIZE ON THE NOISE FIGURE OF TRAVELING WAVE TU
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BY: ZOTTER, B.
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- 421 DIRECT PRODUCTION OF ELECTRICAL PULSES FROM GALVANIC CELLS -- III
BY: HUNGER, H. F. WYNN, J. E.
TECHNICAL REPORT ECOM-2670, MARCH 1966
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- 422 RADIATION EFFECTS ON DIELECTRIC MATERIALS
BY: GENERAL DYNAMICS CORP.
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ORDERING CODE: 1 AD-645 535, ANSEL-KL-IB
- 423 STUDY AND INVESTIGATION LEADING TO THE DESIGN OF BROADBAND HIGH POWER
KLYSTRON AMPLIFIERS
BY: EIMAC DIV., VARIAN
CONTRACT NO. DA-28-043-AMC-01362(E), NOVEMBER 1966
ORDERING CODE: 2 AD-804 956, ANSEL-KL-TM
- 424 KU BAND PULSED MAGNETRONS
BY: LITTON INDUSTRIES
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- 425 METAL BASE TRANSISTOR FET
BY: PHILCO CORP.
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ORDERING CODE: 1 AD-642 524, ANSEL-KL-ID
- 426 RADIATION EFFECTS ON (MONOLITHIC) MICROELECTRONIC CIRCUITS
BY: HUGHES AIRCRAFT CO.
CONTRACT NO. DA-28-043-AMC-0131(E), NOVEMBER 1966
ORDERING CODE: 1 AD-642 301, ANSEL-KL-IC
- 427 HIGH SPEED MICROWAVE FERRITE SWITCHES
BY: BENDIX CORP.
CONTRACT NO. DA-28-043-AMC-01496(E), OCTOBER 1966
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- 428 THIN FUEL CELL ELECTRODES
BY: UNION CARBIDE CORP.
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- 429 LOW TEMPERATURE REFRACTORY METAL TO CERAMIC SEALS
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- 430 MICROMINIATURE CRYSTAL UNITS
BY: GENERAL ELECTRIC CO.
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ORDERING CODE: 2 AD-892 565, ANSEL-KL-SP
- 431 RELIABLE, LOW COST, STABLE RESISTOR, GENERAL PURPOSE
BY: IRC, INC.
CONTRACT NO. DA-36-039-AMC-02202(E), SEPTEMBER 1966
ORDERING CODE: 1 AD-688 001, ANSEL-KL-EC
- 432 TRANSISTOR, VHF, SILICON POWER, LINEAR, 80MHZ, 100 WATTS PEP
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CONTRACT NO. DA-28-043-AMC-01387(E), DECEMBER 1966
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- 433 CHEMICALLY PUMPED LASER SYSTEM
BY: AERONUTRONIC DIV, PHILCO CORP.
CONTRACT NO. DA-36-023-AMC-0325 T, AUGUST 1966
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BY: ENGELHARD INDUSTRIES, INC.
FINAL REPORT, CONTRACT DA-28-043-AMC-01286(E), AUGUST 1966
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- 435 MINATURE HYDROGEN GENERATOR#
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- 436 X-BAND SOLID STATE POWER SOURCE#
BY: FAIRCHILD SEMICONDUCTOR
CONTRACT NO. DA-28-043-AMC-00120(E), APRIL 1966
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- 437 EFFECTS OF EXTERNAL FORCES (TRANSIENT AND PERMANENT)#
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- 438 STUDY OF GERMANIUM DEVICES FOR USE IN A THERMOPHOTOVOLTAIC CONVERTER

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- 439 THIN FILM POLYCRYSTALLINE FIELD EFFECT TRIODE#
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CONTRACT NO. DA-28-043-AMC-00231(E), NOVEMBER 1966
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- 440 INTEGRATED CIRCUIT MODULES FOR COMMUNICATIONS#
BY: RADIO CORPORATION OF AMERICA
CONTRACT NO. DA-28-043-AMC-00454(E), AUGUST 1966
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- 441 SOLID-STATE OPTICAL MASER RESEARCH#
BY: RADIO CORPORATION OF AMERICA
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BY: SPECTRA-PHYSICS, INC.
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- 450 MICROWAVE PHASE SHIFTERS FOR INERTIALESS SCANNING (NON-RECIPROCAL)#
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- 453 CESIUM BEAM TUBE RESEARCH#
BY: VANIAN ASSOCIATES
FINAL REPORT, CONTRACT DA-28-043-AMC-00464(E), JUNE 1966
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- 456 BROADBAND HARMONIC GENERATORS#
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- 457 NOVEL MICROWAVE FILTER DESIGN TECHNIQUES#
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- 458 SOLID STATE TECHNIQUES FOR MODULATING OPTICAL WAVES#
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- 463 EFFECT OF TRANSISTOR DESIGN PARAMETERS ON RADIATION RESPONSE (POWER
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FINAL REPORT, CONTRACT DA 28-043 AMC-01541(E), OCTOBER 1966
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- 464 THIN FILMS FORMED BY ELECTROCHEMICAL REACTIONS#
BY: TEXAS INSTRUMENTS INC.
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- 465 STUDY OF RECEIVER MIXER CHARACTERISTICS#
BY: GEORGIA INSTITUTE OF TECH.
FINAL REPORT, CONTRACT DA 28-043 AMC-01426(E), AUGUST 1966
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- 466 FREQUENCY TEMPERATURE COMPENSATED QUARTZ CRYSTAL OSCILLATOR 0-1227C
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- 467 THALLIUM BEAM TUBE RESEARCH#
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BY: GENERAL TEL & ELECT LAB.
FINAL REPORT, CONTRACT DA 28-043 AMC-00492(E), SEPTEMBER 1966
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- 469 HIGH RELIABILITY CONNECTIVE DEVICES#
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FINAL REPORT, CONTRACT DA 36-039 AMC-03727(E), MAY 1966
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- 470 RESEARCH ON THIN FILM TUNNEL CATHODES, RECOMBINATION CATHODES, AND S
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FINAL REPORT, CONTRACT DA 28-043 AMC-00035(E), SEPTEMBER 1966
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- 474 INTERDEPENDENCE OF MAINTENANCE SUPPORT AND TECHNICAL MANUALS
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PROCEEDINGS OF ARMY OPERATIONS RESEARCH SYMPOSIUM, FORT MONMOUTH, N. J.,
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BY: POINDEXTER, E. H.
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