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**PUBLICATIONS
PRESENTATIONS
AND PATENTS**



1963

U.S. Army Electronics Research and Development Laboratories

U. S. ARMY ELECTRONICS RESEARCH AND DEVELOPMENT LABORATORIES
FORT MONMOUTH, NEW JERSEY

1 JANUARY 1964

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PUBLICATIONS AND PRESENTATIONS
JANUARY 1963 THROUGH DECEMBER 1963

1. "DOUBLE-RESONANCE PARAMETERS FOR SOLUTIONS OF FRESH ASPHALTENE" - (JEFFRIES-HARRIS, M. J. OF CALIFORNIA RESEARCH CORPORATION), POINDEXTER, E. H., PUBLISHED IN THE JOURNAL OF CHEMICAL PHYSICS, 1 JANUARY 1963.
2. "INVESTIGATIONS ON A BEAM WAVEGUIDE FOR OPTICAL FREQUENCIES" - GOUBAU, G., CHRISTIAN, J. R., PRESENTED AT THE MILLIMETER AND SUBMILLIMETER CONFERENCE, 7 - 10 JANUARY 1963, ORLANDO, FLORIDA.
3. "MM-WAVE GENERATION BY MULTIPLE QUANTUM TRANSITIONS" - ANDRESEN, H. G., PRESENTED AT THE MILLIMETER WAVE AND SUBMILLIMETER CONFERENCE, ORLANDO, FLORIDA, 7 - 10 JANUARY 1963.
4. "DESIGN PROBLEMS AND PERFORMANCE OF MM-WAVE FABRY-PEROT REFLECTOR PLATES" - WELLING, H., ANDRESEN, H. G., PRESENTED AT THE MILLIMETER AND SUBMILLIMETER CONFERENCE, ORLANDO, FLORIDA, 9 - 10 JANUARY 1963.
5. "A FREQUENCY LOCK SYSTEM FOR A MM-WAVE KLYSTRON" - WELLING, H., ANDRESEN, H. G., PRESENTED AT THE MILLIMETER WAVE AND SUBMILLIMETER CONFERENCE, ORLANDO, FLORIDA, 9-10 JANUARY 1963.
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7. "MICROINDENTATION HARDNESS - ITS HISTORY AND APPLICATION" - TOMAN, L., PRESENTED BEFORE THE NEW YORK MICROSCOPICAL SOCIETY, NEW YORK CITY, 18 JANUARY 1963.
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9. "COMPONENTS PARTS RELIABILITY PROGRAMS AT USAELRDL" - GRUOL, J. W., PRESENTED AT THE 9TH NATIONAL SYMPOSIUM ON RELIABILITY AND QUALITY CONTROL, SAN FRANCISCO, CALIFORNIA, 23 JANUARY 1963. ALSO PUBLISHED IN THE PROCEEDINGS OF THE 9TH NATIONAL SYMPOSIUM ON RELIABILITY AND QUALITY CONTROL, JANUARY 1963.

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24. "QUANTUM NOISE" - SENITZKY, I. R., PRESENTED AT THE 3RD INTERNATIONAL SYMPOSIUM ON QUANTUM ELECTRONICS, PARIS, FRANCE, 11-15 FEBRUARY 1963.
25. "INTERCONNECTION PROBLEM" - GERHOLD, R. A., PRESENTED AT THE INTERNATIONAL SOLID STATE CIRCUITS CONFERENCE, PHILADELPHIA, PENNSYLVANIA, 14 FEBRUARY 1963.
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49. "EFFECT OF TEMPERATURE AND INJUNCTION LEVEL OF THE PHOTO-VOLTAGE AT A RHODIUM TO P-SI CONTACT" - (GREEN, M. OF BURROUGHS CORP), (PHILBRICK, J., OF WESTINGHOUSE RESEARCH LABORATORY), GREENBERG, I. N., PRESENTED AT THE AMERICAN PHYSICAL SOCIETY MEETING, ST LOUIS, MISSOURI, 25-28 MARCH 1963.
50. "EXPERIMENTAL CALIBRATIONS OF SILICON RECTIFIER DEVELOPED AS A FAST NEUTRON SUB-MINIATURE DOSIMETER" - (SWARTZ, J. OF BATTELLE MEMORIAL INST), BROWNE, L., PRESENTED AT IEEE PUBLISHED IN IEEE TRANSACTIONS ON NUCLEAR SCIENCE, JULY 1963.
51. "NOISE SIGNALS AND CARRIER MODULATION ARISING IN ELECTRICAL CABLES DURING NUCLEAR PULSE IRRADIATION" - BOTH, E., BRUEMMER, H., LASCARO, J., SCHLOSSER, W., PRESENTED AT IEEE INTERNATIONAL CONVENTION, NEW YORK, 26 MARCH 1963 AND PUBLISHED IN IEEE INTERNATIONAL CONVENTION RECORD.
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56. "MEASURING FAST-NEUTRON FLUXES IN MIXED NEUTRON-GAMMA ENVIRONMENT" - KRONENBERG, S., PUBLISHED IN NUCLEONICS MARCH 1963.
57. "INFRARED TRANSMITTANCE OF RHOMBIC SULFUR" - MACNEIL, G., PUBLISHED IN THE JOURNAL OF THE OPTICAL SOCIETY, MARCH 1963.
58. "MONITORING LASER POWER BY SOLAR CELL" - SCHIEL, E., PUBLISHED IN SOLID/STATE/DESIGN, MARCH 1963.
59. "SPIN-WAVE INSTABILITY IN HEXAGONAL FERRITES WITH A PREFERENTIAL PLANE" - (SCHLOMANN, E., JOSEPH, R. I. OF RAYTHEON), BADA, I., PUBLISHED IN THE JOURNAL OF APPLIED PHYSICS, MARCH 1963.
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62. "OPTICAL MASER DETECTION BY MICROWAVE ABSORPTION IN SEMICONDUCTORS" - BRAND, F., JACOBS, H., WEITZ, S., STROZYK, J., PRESENTED AT IEEE INTERNATIONAL CONVENTION, NEW YORK, MARCH 1963, PUBLISHED IN 1963 IEEE INTERNATIONAL CONVENTION RECORD.

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66. "CONSEQUENCES OF THE BCS THEORY FOR THE OCCURRENCE OF SUPERCONDUCTORS IN THE PERIODIC TABLE AND RELATED PROBLEMS" - GAULE, G. K., PRESENTED AT NEW YORK UNIVERSITY, NEW YORK, 3 APRIL 1963.
67. "COMMUNICATION VIA SEISMIC WAVES" - IKRATH, K., SCHNEIDER, W., PUBLISHED IN ELECTRONICS, 12 APRIL 1963.
68. "FLUORESCENCE OF Sm^{3+} IN CaF_2 " - RABBINER, N., PUBLISHED IN PHYSICAL REVIEW, 15 APRIL 1963.
69. "THE U. S. ARMY ELECTRONICS RELIABILITY STEERING GROUP - A HISTORY LEADING TOWARD ITS ORIGIN AND A PROGRESS REPORT" - NACHMIAS, H. M., PRESENTED AT RESERVE OFFICER'S CONTROL GROUP DETACHMENT NR 25, FORT MONMOUTH, NEW JERSEY, 16 APRIL 1963.
70. "ON THE THEORY OF THE ATMOSPHERIC ELECTRIC CURRENT FLOW, IV" - KASEMIR, H. W., PRESENTED AT THE AMERICAN GEOPHYSICAL UNION AND AMERICAN METEOROLOGICAL SOCIETY, WASHINGTON, D. C., 17 APRIL 1963.
71. "BASIC AXIOMS OF MODAL LOGIC: MANY-VALUED LOGICS" - BISER, E. PRESENTED AT FRIENDS OF MATHEMATICS SOCIETY MEETING, MONMOUTH COLLEGE, WEST LONG BRANCH, NEW JERSEY, 17 APRIL 1963.

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77. "CAMERA EXPOSURE CONTROL" - ORLANDO, C., PRESENTED AT SPSE 1963 ANNUAL CONFERENCE, ATLANTIC CITY, NEW JERSEY, 29 APRIL - 3 MAY 1963.
78. "APPLICATION OF PHOTOGRAPHIC EMULSION MODULATION TRANS CURVES" - LEVY, M., PRESENTED AT SPSE 1963 ANNUAL CONFERENCE, ATLANTIC CITY, NEW JERSEY, 29 APRIL - 3 MAY 1963.
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82. "A NEW SERIES OF 'HEXAGONAL FERRITE' STRUCTURES" - KOHN, J. A., ECKART, D. W., PUBLISHED IN THE JOURNAL OF PHYSICAL CHEMISTRY, APRIL 1963.
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85. "NEW MICROWAVE TECHNIQUES IN SURFACE RECOMBINATION AND LIFETIME STUDIES" - JACOBS, H., BRAND, F., MEINDL, J. D., WEITZ, S., (BENJAMIN, R OF MONMOUTH COLLEGE), HOLMES, D. A. PUBLISHED IN THE PROCEEDINGS OF IEEE, APRIL 1963.
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95. "ELEMENTS OF RECEIVER SUSCEPTIBILITY" - GALENIAN, J. C., PUBLISHED IN ELECTRONICS MAGAZINE, 17 MAY 1963.
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97. "AC THERMIONIC CONVERTER STUDY" - ANGELLO, J., KITTL, E., PRESENTED AT THE 17TH ANNUAL POWER SOURCES CONFERENCE, ATLANTIC CITY, NEW JERSEY, 21-23 MAY 1963 AND PUBLISHED IN THE PROCEEDINGS, 21-23 MAY 1963.

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