Proceedings of the national electronics conference, volume XIX

Abstrak

CONTENTS:
- GENERAL INDEX OF TECHNICAL PAPERS
- INDEX OF TECHNICAL PAPERS BY SESSION
- PROGRAM OF THE 19TH NATIONAL ELECTRONICS CONFERENCE
- TUESDAY AFTERNOON, OCTOBER 29
- President's Message
- CONFERENCE MANAGEMENT
- N. E. C. Fellowship Awards
- TECHNICAL PAPERS
- MATRIX ANALYSIS OF NETWORK SENSITIVITIES
- ERROR-LOCATION CODES FOR A DEEP SPACE PROBE TELEMETRY SYSTEM
- A COMPARISON OF TWO SCHEMES INVOLVING A.DECISION AND TRANSMISSION THROUGH A NOISY CHANNEL
- PROBABILITY OF BLOCKING OF ADDRESS COMMUNICATION NETWORKS UTILIZING SATURATION SIGNALING1
- OPTIMAL TREES FOR SIMULTANEOUS FLOW REQUIREMENTS
- THE BEHAVIOR OF FIELDS NEAR MOUNTAINS
- A LIGHT-MODULATED SCATTERING TECHOTQUE FOR DIFFRACTION FIELD MEASUREMENTS
- THE REDUCTION OF ANGLE-OF-ARRIVAL SCINTILLATION BY A FREQUENCY SHIFTING TECHNIQUE
- THE DIELECTRIC ROD AS AN UNUSUALLY EFFECTIVE RADAR REFLECTOR
- PRELIMINARY ANALYSIS OF A HELIX-EXCITED DIELECTRIC-TUBE ANTENNA
- SCIMITAR--A WIDE-BAND ANTENNA
- R-C DISTRIBUTED PARAMETER NETWORK WITH CIRCULAR GEOMETRY*
- STABILITY OF LINEAR, TIME-VARYING NETWORKS BOUNDS ON THE STORED ENERGY*
- PATH FORMULATION FOR LINEAR GRAPHS
- SOME OPTIONS IN THE DESIGN OF A RESIDUE ARITHMETIC COMPUTER
- m-out-of-n DECISION LOGIC
- ERROR-CORRECTING CODES APPLIED TO COMPUTER TECHNOLOGY
- AN EVALUATION OF SOME METHODS OF ERROR DETECTION AND CORRECTION FOR BINARY DATA TRANSMISSION

- THE DESIGN OF MODULAR 250-MC COMPUTING CIRCUITRY
- IN AND OUT OF CIRCUITS WITH PROBES
- COMPOSITE SYNCHRONOUS-ASYNCHRONOUS LOGIC CIRCUITS FOR NANOSECOND COMPUTING
- 200 Mbit/s PSEUDO RANDOM SEQUENCE GENERATORS FOR VERY WIDE BAND SECURE COMMUNICATION SYSTEMS
- ELECTROMECHANICAL ENERGY CONVERSION BY MEANS OF VARIATION OF RELUCTANCE
- CYLINDRICAL FILM MEMORY
- HIGH SPEED FERRITE SWITCH DRIVERS
- STABILIZED 400-CYCLE-OEERATED MAGNETIC FREQUENCY MULTIPLIER
- APPLICATION OF AIR DERIVED DATA TO AIR TRAFFIC SEPARATION PROBLEMS
- A SPACE RENDEZVOUS AND LANDING FM-CW RADAR SYSTEM
- A HYBRID ANALOG-SWITCHING ATTITUDE CONTROL SYSTEM FOR SPACE VEHICLES (HYACS)
- SYSTEMATIC GENERATION OF MONOSTABLE AND COUNTING BISTABLE CIRCUITS
- A TRACTABLE BERNOULLI-SEQUENCE GENERATOR
- A DIGITAL INTERMITTENT DATA FLOW MAGNETIC TAPE RECORDING SYSTEM
- A NANOSECOND PARALLEL-PARALLEL BINARY ADDER IMPLEMENTED WITH CURRENT MODE LOGIC BUILDING BLOCKS
- HIGH-FREQUENCY SINGLE-S IDEBAND TRANSCEIVER
- A DISCUSSION OF THE QUALITY FACTORS IN AN EARTH-SATELLITE - EARTH COMMUNICATION SYSTEM
- A WIDEBAND COMMUNICATION SYSTEM USING FREQUENCY SLOPE MODULATION
- FORWARD ACTING AUTOMATIC GAIN CONTROL
- BROADBAND CRYSTAL - VIDEO DETECTORS FOR MILLIMETER WAVEGUIDES
- A REALIZATION OF TRANSISTOR GYRATORS
- APPLICATIONS OF FIELD-EFFECT TRANSISTORS IN LOW-NOISE WIDEBAND VOLTAGE AND CHARGE-SENSITIVE PREAMPLIFIERS
- MICROWAVE GENERATION BY THE USE OF TRANSISTORS SWITCHING IN THE AVALANCHE MODE
- A TRANSISTORIZED CAPACITOR REFRACTOMETER FOR RADIOSONDE MEASUREMENTS*
- POWER TRANSISTOR CIRCUIT DESIGN FOR MAXIMUM HEAT TRANSFER
- A MAGNETIC FILM LOW FREQUENCY PARAMETRIC AMPLIFIER
- THE OPTIMUM DESIGN OF WIDEBAND PHASE-SHIFT AMPLIFIERS
- PREDICTION OF ANOMALOUS BEHAVIOR IN NONLINEAR FREQUENCY

CONVERTERS
- RECENT DEVELOPMENTS IN PARAMETRIC MULTIPLIERS
- THE REALITY OF BIO-MEDICAL ENGINEERING
- THE NORTHWESTERN BIO-MEDICAL ENGINEERING CENTER AND TRAINING PROGRAM
- THE UNIVERSITY OF MICHIGAN PROGRAM IN BIOENGINEERING
- GRADUATE EDUCATION IN BIOMEDICAL ENGINEERING
- SIMULATION OF HUMAN PROBLEM-SOLVING METHODS
- ELECTRON BEAM WELDING OF BRAZED REFRACTORY JOINTS
- VERSATILE INTERCONNECTION - PACKAGING SYSTEM FOR INTEGRAL ELECTRONICS USING ELECTRON BEAM TECHNIQUES
- A NEW NON-THERMIONIC ELECTRON GUN
- ELECTRON BEAM MACHINING OF FERRITES
- SOME DYNAMIC ASPECTS OF THEORETICAL LASER MICROMACHINING LIMITATIONS
- A REVIEW OF OPTICAL-ULTRASONIC INTERACTION WITH ILLUSTRATIVE APLLICATIONS TO COHERENT LIGHT PHENOMENA
- EFFECTS OF THE LASER BEAM
- THE LASER AS A MACHINE TOOL
- SHIELDING REQUIREMENTS FOR, ELECTRONIC COMPONENTS IN RADIATION ENVIRONMENTS
- STEADY-STATE RADIATION EFFECTS ON ELECTRONIC COMPONENTS AND CIRCUITS
- NUCLEAR RADIATION EFFECTS ON ELECTRONICS ANALYSIS AND SYNTHESIS
- IMPORTANT PARAMETERS IN DESIGNING InSb INFRARED DETECTORS
- LEAD SELENIDE INFRARED DETECTORS
- LONG INFRARED WAVELENGTH DETECTION WITH MERCURY DOPED GERMANIUM AND STIRLING CYCLE COOLING
- MIRTRAK--A MOTORLESS PRECISION INFRARED TRACKER
- RECENT DEVELOPMENTS IN PLASMA GENERATION
- SCATTERING OF ELECTROMAGNETIC RADIATION BY IONIZED GASES
- MEASUREMENT OF PLASMA PROPERTIES BY MEANS OF PROBE TECHNIQUES, etc.