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## TEKNİK BASINDAN SEÇMELER

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### PROCEEDINGS OF THE IEEE

(Ocak 1969)

Picosecond Laser Pulses A. J. DEMARIA - W. H. GLEEN - M. J. BRIENZA - M. E. MACK.  
Physical Basis of Noncatastrophic Degradation in Ga As Injection Lasers. H. KRESSEL - N. E. BYEB.  
A New Electric Field Controlled Reflective Optical Storage Effect in Mixed Liquid Crystal Systems. G. H. HEILMEJER - J. E. GOLDMACHER.  
Normal Modes in RLC Networks R. R. PARKER.  
Waves in a Moving Medium with Finite Conductivity D. A. DUNN - R. W. WALLACE - S. D. CHOI.  
Hadamard Transform Image Coding W. K. PRATT - J. KANE - H. C. ANDREWS  
Resistance Reduction Factors Obtained with Litz Techniques and LN<sub>2</sub> Cooling G. H. KRAMER  
The Influence of Substrate Bias upon the AC Characteristics of MOS Transistors P. BERGVELD  
Phase Mismatch in Travelling - Wave Parametric Amplifiers. M. J. COLLES - R. C. SHITH - C. R. STANLEY.  
Adjustable Distributed All - Pass Networks for Time Delay Applications J. C. WOODARD - R. W. NEWOOMB.  
Direct Determination of the Pinch - Off Voltage of a Depletion - Mode Field - Effect Transistor. Bruce D. WEDLOCK.  
FM. Noise Reduction of Gunn - Effect Oscillators by Injection Locking T. SUGIURA - S. SUMIMOTO  
Low-Loss Laser Beam Transmission Through Lenses at the Brewster Angle S. SATTO - Y. FUJII - S. SHIRAISHI.  
Effects of Quantization and Sampling in Digital Correlators and in Power Spectral Estimation D. W. TUFTS - W. KNIGHT  
180 Degree Ring Couplers G. DUZZATTO  
Comments on «Sea Echo at Laser Wavelength» J. H. BURBO.  
Amplitude Modulation of Microwave Signals Using Transferred - Electron Diodes. F. STERZER.  
On the Solution of Langmuir's Spherical Space - Charge Equation. L. M. LITNSON - J. D. DAUGHTERY.  
The Focal Length of the Optics in Optical Communication Systems. J. EKBERG.  
A High - Speed Wide - Band and X-Band FM Deviator with a Gunn - Effect Diode. T. SUGIURA.

Liapunov Function of a Sixth-Order Nonlinear System. Y. H. KU.

The Multipactor Electron Gun. W. J. GALLAGHER.

Surface Roughness Studies by Optical Processing Methods. W. L. ANDERSON.

A Light Diffraction Technique for Measuring Dielectric Constants at Microwave Frequencies.

D. C. AUTH - W. G. MAYER - W. J. THALER.

Octave Electronic Tuning of a CW Gunn Diode Using a YIG Sphere. M. OMORI.

Focused Interferometers for Plasma Diagnostics. H. M. MUSAL.

Electroluminescence in Vacuum Evaporated Cadmium Sulfide. A. M. ANDREWS - C. R. HADEN.

A Hologram Form of Bi-static Radar or Sonar. W. E. KOCK.

Reflection Coefficient and Reflected Power on a Lossy Transmission Line R. J. VERNON - S. R. SESHADRI.

A Method for Realizing Time-Varying Circuit Elements. R. W. DONALDSON - K. F. WICKWIRE.

Use of the Contourgraph to Evaluate a High-Resolution Television Microscope. K. Preston - J. CARVALKO.

Photo-Induced Magnetomicrowave Effects in Semiconductors S. SOCLOF - W. D. HERBERGER.

Optimizing a Scheme for Run Length Encoding. S. D. BRADLEY.

Further Comments on «Companions of the Neutron Radiation Tolerance of Bipolar and Junction Effect Transistors». G. C. MESSENGER.

The Scattering Spectrum of Particles in the Near Zone of a Gaussian Beam. R. J. ALBRINGHT - J. H. HARRIS.

A Note on the Information Transmission with Continuous Signals. S. C. KAK.

### PBOCEEDINGS OF THE IEEE

(Şubat 1969)

Laser in Industry. F. P. GAGLIANO - R. M. LUMLEY - L. S. IVATKINS.

Measurement of Probabilities and Correlations with a Storage Tube. V. R. ALG AZI.

The Interchange of Time and Frequency in Television Displays. A. KARPEL - S. N. LOTSOFF - R. L. WHITMAN.

Heat Stress Due to R. F. Radiation W. W. MUMFORD.

The Piezoelectric Crystal Unit - Definitions and Methods of Measurement. E. HAFNER.

Generalized Paired - Echo Analysis for Bandpass Systems. M. E. BECHTEL

Estimation and Reduction of Aerosol Backscatter in Optical Systems. T. M. CLANCY - D. W. WILMOT.

Transient Response of an Operational Amplifier with Logarithmic Feedback. H. M. MUSAL.

Germanium Radiation Detectors Compensated by Irradiation Defects. L. C. KIMERLING - L. B. GOLOVIN - H. C. GATOS.

On Electrical Analogs for Flow Networks. I. T. FRISCH.

Dipolar Resonance in the Plane-Wave Scattering by an Axially Magnetized Ferrite Cylinder. S. R. SESHADRI.

A Geometrical Stability Criterion, Similar to the Popov Criterion, for Time-Varying, Nonlinear, Continuous Systems. J. S. KRİKORIAN - T. A. BICKART.

Injection-Locked Avalanche Diode Oscillator FM Receiver. T. L. OSBORNE - C. H. ELMENDORF.

A Wide-Band 4- GHz Esaki-Diode Injection-Locked Oscillator. K. SUGAWARA.

SHF Tunnel Diode Switching - Mode Frequency Divider. R. H. DOMNITZ.

The Relation Between the Current Constriction and the Area of a Transistor. H. KĪSAKĪ.

Small-Signal and Saturation Characteristics of an X - Band Cyclotron - Resonance Oscillator. B. KULKE - R. W. WILMARTH.

Computer Simulation of Multifrequency LSA Oscillation in Ga As. W. O. CAMP.

A StC Backward Diode. R. FARRELL.

A Simple Circuit Using FETs for Fading Audio Signals in and Out Exponentially in Time. H. P. VON OW.

The Sonic Region for Propagation in a Parametric Medium with Harmonic Pump Modulation. S. T. PENG - E. S. CASSEDY.

Computation of the Inverse Hessian Matrix Using Conjugate Gradient Methods. R. K. MEHRA.

A Stability Criterion for Periodically Time-Varying Systems. M. LAL - S. B. DDCIT - P. N. AVASTHY.

Frequency Analysis of the Probe Current in an RF Discharge. O. SAGER.

On an Identification Method for Linear Discrete Systems. T. C. HSĪA.

Pinched-Mode Operation of Field-Effect Transistor. A. B. GREBENE.

Easy Partial Fraction Expansion with Multiple Poles. S. KARNĪ.

Low-Pass Prototype Element Values for Doubly Loaded Butterworth Filters with 16 through 25 Resonators. H. J. HINDIN.

A Voltage-Controlled Tunable Active Null Network. G. R. STEBER - R. J. KRUEGER.

On the Evaluation of the State Transition Matrix. B. ROY - A. K. MANDAL - D. R. CHOUDHURY - A. K. CHOUDHURY.

Three-Dimensional Diagrams for Mass Viewing and Printed Presentation. L. R. MORRIS.

A Similar Geometry Simplified for Field Calculations. H. S. HAYRE - T. G. AVGERĪS - K. U. SĪVAPRASAD.

Multiple Conduction in a Series Type Frequency Multiplier Using an ideal Step-Recovery Diode. W. M. VAN LOOCK.

An Algorithm for Approximately Diagonalizing a Matrix. J. B. PLANT.

Digital Filtering with Sampled Signal Spectrum Frequency Shift. V. CAPPELLINĪ.

A Very High Impedance Wide-Band Buffer Amplifier. R. W. J. BARKER - B. L. HART.

Comments on «A Limitation on Frequency of Gunn Effect Due to the Intervalley Scattering Time». T. OHMT

Amplitude Quantization: A New, More General Approach. M. WĪNOKUR.

Microwave Motor. R. J. DEWEY.

Time Delay in ideal Gyrotrons. G. MARTINELLI.

Improvement of Reliability of Gunn Diodes. M. SOJI.

High Efficiency X - Band Gunn Oscillators. F. P. CALIFANO.

Holographic Measurements of Optical Induced Refractive Index Inhomogeneities, in Bismuth Titanate. L. H. LIN.

Field Distribution in a Gunn Diode with a Distributed Capacitance electrode. M. SUGA.

R. F. Voltage Breakdown in Coaxial Transmission Lines. R. WOO.

ELECTRONIC ENGINEERING  
(Nisan 1969)

Digital 16 - bit Memory Cell Functional Tester. A. N. HUU.

A Fresh Approach to Logarithmic computation. K. J. DEAN.

Matched Vacuum Window for Coaxial Line. P. BRAMHAM.

Integrated Analogue Divider/Multiplier. V. C. ROBERTS.

Basic Logical Approach to Counting. P. BRACKNER.

Noise in Common - Emitter Amplifiers at Moderately high Frequencies. F. N. H. ROBINSON.

Coaxial Attenuator Design. T. SPENCER.

## L'ONDE ELECTRIQUE

(Sayı 504)

Le Systême NIRAP de loglque non saturée ultrarapide. R. d'ABOVILLE.

Les Modèles mathématiques de composants électroniques. J. BOREL.

Problèmes posés par le modèle de transistor bipolaire du programme Imag I et la mesure des paramètres associés. CL. IMBRECHTS - J. LE BER. Détermination des valeurs numériques entrant dans les programmes de calcul automatique de circuits électroniques. PH. ZYROMSKI - R. REBEROL.

Modèles de transistors pour analyse de circuits par ordinateur. R. CARTON - R. MICOLET - M. ROCHE.

Evolution du spectre de bruit en fonction de la température dans les transistors à effets de champ. J. BOREL - J. LACORRE.

Photodiodes au Silicium en régime d'avalanche. G. PERES - G. RIPOCHE.

Synthèse et réalisation de circuits actifs réglables en T.B.F. A. LAVIRON.

Développement des condensateurs céramiques de type II dans le cadre du programme spatial Concerto. J. GUYONNET.

Circuits ferrocube R6 pour les télécommunications. M. LAMY.

Considérations sur les effets de grille des résistances obtenues par sérigraphie. PH. BASSEVILLE.

Thermistances à couches minces. J. POMPEÏ - J. F. KERFORNE.

Techniques nouvelles dans les tubes à rayons cathodiques de grande qualité, à large bande. J. BRU - B. HEINRICH.

Mesure automatique des paramètres de commutation d'une diode. J. BIELLE - J. BOUYSSOU - M. MONCHANT.

## THE BELL SYSTEM TECHNICAL JOURNAL

(Aralık 1968)

«Mental Holography» Stereograms Portraying Ambiguously Perceivable Surfaces. B. JULESZ - S. C. JOHNSON.

The Capacity of Multiple Beam Waveguides and Optical Delay Lines. D. GLOGE - D. WEINER.

A Model of a Domestic Satellite Communication System. L. C. TILLOTSON.

Path Length Variation in a Synchronous Satellite Communications. A. G. LUBOWE.

Parametric Representation of Ground Antennas for Communication Systems Studies. D. L. POPE.

Radiating Properties of Dielectric Covered Apertures. E. R. NAGELBERG.

A New Reference Frequency Standard for the L Multiplex System. W. A. KESTER.

Analysis and Synthesis of a Digital Phase-Locked Loop for FM Demodulation. G. PASTERNAK - R. L. WHALIN.

First and Second Passage of Sine Wave Plus Noise. A. J. RAÏNAL.

The Spectrum of a Simple Nonlinear System. S. C. LIU.

Statistical Analysis and Stochastic Simulation of Ground-Motion Data. S. C. LIU.

Reliable Information Storage in Memories Designed from Unreliable Components. M. G. TAYLOR.

Reliable Computation in Computing Systems Designed from Unreliable Components. M. G. TAYLOR.

A Self-Healing Control. B. E. BRÏLEY.

Efficient Spacing of Synchronous Communication Satellites. H. E. ROWE - A. A. PENZIAS.

## THE BELL SYSTEM TECHNICAL JOURNAL

(Ocak 1966)

Some Theorems on Properties of DC Equations of Nonlinear Networks. I. W. SANDBERG - A. N. WILLSON.

Some Theorems on the Dynamic Response of Nonlinear Transistor Networks. I. W. SANDBERG Adaptive Equalization of Highly Dispersive Channels for Data Transmission. A. GERSHO.

On the Probability of Error Using a Repeat-Request Strategy on the Additive White Gaussian Noise Channel. A. D. WYNER.

Second and Third Order Modulation Terms in the Distortion Produced when Noise Modulated FM Waves are Filtered. S. O. RICE.

Frequency Modulation of a Millimeter-Wave Impatt Diode Oscillator and Related Harmonic Generation Effects. T. P. LEE - R. D. STANDLEY. Minimal Synthesis of Two-Variable Reactance Matrices. T. N. RAO.

Computation of the Noncentral Chi-Square Distribution. G. H. ROBERTSON.

Uniform Approximation of Linear Systems. H. HEFFES - P. E. SARACHIK.

A Second Order Statistical Analysis of the Operation of a Limiter-Phase Detector-Filter Cascade. W. D. WYNN.

Multiplex Touch-Tone Detection Using Time Speed-Up. J. F. O'NEILL.

Data Transmission Error Probabilities in the Presence of Low-Frequency Removal and Noise. B. R. SALTZBERG - M. K. ISIMON.

Computer-Aided Circuit design by Singular Imbedding. E. B. KOZEMCHAK - M. A. MURRAY - LASSO.

#### **NACHRICHTENTECHNISCHE ZEITSCHRIFT**

(Nisan 1969)

Die Approximation variabler Entzerrer. H. KAMPFENKEL.

Neuere Messverfahren der Mikrowellentechnik. H. GROLL.

Einfluss der Troposphäre auf Radioastronomische Sonatoren. H. GROLL-W. BERGHOFER.

Zur Messung des Gütefaktors von Mikrowellenröhren über das Verhalten von Schutzgaskontakten bei Pneumatische Gasetze und Messverfahren für Messungen im mm-Wellenbereich. G. FEDC.

kapazitiver Belastung. P. LAHSE - R. W. SIMON. druckgasgeschützte Fernmeldekabel. H. LARSEN.

Möglichkeiten zum Erhöhen der Messgenauigkeit und zum Vereinfachen der Bedienung Selektiver Pegelmesser. H. BAYER.

Das Fernmeldenetz der Steinkohlen-Elektrizität Aktiengesellschaft. Von. M. DOMS.

Empfangsseitige Störabstandsverluste bei binären Übertragungen von interplanetaren Raumsonden. Von C. KÖKEN.

#### **REVIEW OF THE ELECTRICAL COMMUNICATION LABORATORY**

(Cilt 16, Sayı 11-12)

Three-Guide Hybrid for Millimeter Wave Branching Filter. S. SHIMADA.

Power Supply for Transistorized Coaxial Pair Cable Systems. N. KOJIMA - H. SAKAI

#### **RCA REVIEW**

(Cilt 29, Sayı 4)

Isolation Techniques for Fabricating Integrated Circuits. I — Laminated Substrates. J. A. AMICK - A. W. FISHER.

II — Dielectric Refill Techniques and Decal Air Isolation. A. I. STOLLER - W. H. SCHLIP.

Relationship Between The Performance of A Linear Amplifier Microcircuit and the Isolation Technique Used in Its Construction. A. I. STOLLER.

Apparatus For Chemical Vapor Deposition of Oxide and Glass Films. W. KERN.

Diffusion Characteristics and Applications of Doped Silicon Dioxide Layers Deposited From Silane, (SiH<sub>4</sub>). A. W. FISHER - J. A. AMICK - H. HYMAN - J. H. SCOTT.

Diffusion Characteristics of Doped Silicon Dioxide Layers Deposited From Premixed Hybrids. A. W. FISHER - J. A. AMICK.

A Technique for Measuring Etch Rates of Dielectric Films. W. KERN.

DC Sputtering with RF - Induced Substrate Bias. J. L. VOSSEN - J. J. O'NEILL.

Additive Processing Techniques for Printed-Circuit Boards. R. J. RYAN - T. E. McCURDY - N. E. WOLFF.

Calculation of the Electrical Parameters of Transistor Chips from Measurements Made on Packaged Units. A. I. STOLLER.

Controlled Oxidation of Silane. K. STRATER.

Development of P-Channels Enhancement MOS Triodes. P. DELTAVORIAS.

#### **POINT-TO-POINT TELECOMMUNICATIONS**

(Nisan 1969)

The Piccolo 32-Tone Telegraph System. D. BAYLEY - J. D. RALPHS.

Data Transmission on Digital Link Sections. A. D. STEVENS.

The No. 2 Antenna System, Goonhilly.

Long Range Planning of Research and Development. A. W. COLE.

The Aesthetics of Antenna Design. M. F. RADFORD.

#### **REVUE GÉNÉRALE DE L'ÉLECTRICITÉ**

(Nisan 1969).

Propagation des ondes électromagnétiques guidées par une ligne multifilaire. R. PELISSIER

Étude de certains systèmes triphasés déséquilibrés. F. BABLED

Le moteur linéaire : Prospective et moteur linéaire. E. REMY

Le moteur linéaire : Applications du moteur linéaire. E. REMY - M. VICTORRI

Batteries d'accumulateurs souples nickel-cadmium pour alimentation de ballons météorologiques. B. MONNERET - M. DU PLESSK - J. - P. COURTOT

La Métrologie Électrique : La mesure précise de la puissance en courant alternatif. L. MORREN

Les étalons et la détermination des unités électriques au Laboratoire central des Industries

fréquence au Laboratoire central des Industries  
électriques. N. ELNEKAVE  
Les étalonnages en courant continu et en basse  
électriques. R. KNOSP

La métrologie en haute fréquence. J. BLOUET  
La recherche en métrologie et le Bureau national  
de Métrologie. G. DENEGRÉ

Réflexions en marge du Congrès de métrologie.  
L'utilisateur d'un matériel de mesure peut-il

calculer l'erreur expérimentale probable? G. NEY  
Une expérience de cinq ans sur le comportement  
des isolateurs à moyenne tension sous pollution  
industrielle naturelle. P. - Y. HEBET

Examen du comportement d'isolateurs haute  
tension sous pollution par une méthode d'essai  
conventionnelle faisant ressortir les propriétés  
d'auto-nettoyage. H. Meler

## ETİBANK KÖY ELEKTRİFİKASYONU DAİRE BAŞKANLIĞINDAN

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1 — Köy elektrifikasyonu tesislerinde kullanılmak üzere pik dökümden mamul 4000 adet tekli ve 4000 adet çiftli sokak lambası kelepçesi (kolye) satın alınacaktır.

2 — Bu işe ait şartnameler :

- a) ETİBANK KÖY ELEKTRİFİKASYONU DAİRE BAŞKANLIĞI  
Mithatpaşa Caddesi No. 60/5 YENİŞEHİR/ANKARA
- b) ETİBANK ALIM SATIM ŞUBESİ MÜDÜRLÜĞÜ  
Meşrutiyet Caddesi Asmalımesit No. 241

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adreslerinden bedelsiz olarak temin edilebilir.

3 — Teküfler en geç 4.7.1969 Cuma günü saat 16,00 ya kadar dairemizin «Mithatpaşa Caddesi No. 60/7 Yenişehir/ANKARA» adresindeki muhaberat servisine verilmiş olacaktır.

4 — Geciken teklifler nazarı itibare alınmaz.

5 — Dairemiz siparişi yapıp yapmamakta veya kısmen veya tamamen dilediği firmaya iş yaptırmakta serbesttir.