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## TEKNİK BASINDAN SEÇMELER

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### PROCEEDINGS OF THE IEEE

(Mart 1969)

The Thermal Structure of the Ionosphere. PETER M. BANKS.

A  $ix/y$  Light Level Slow Scan TV Camera for Satellite Application. S. B. MENDE.

Calculation of the Acoustic Radiation Field at the Surface of a Flint Cylinder by the Method of Weighted Residuals. F. H. FENLON.

Plasma Physics and the Interruption of an Electric Circuit. T. H. LEE.

The AN/FPS -85 Radar System. J. EMORY - REED.

On the Computation of Intermodulation Products for a Power Series Nonlinearity. R. G. SEA - A. G. VACROUX.

A Fast Algorithm for Computing the Response of a Linear System to a Large Number of Inputs. E. J. MASTASCUSA.

High Power K - Band Gunn Oscillators. F. B. FANK - G. F. DAY.

Observations of Voltage and Current Waveforms of the Transferred Electron Oscillators. T. IKOMA H. TORIZUKO - K. YANAİ.

Frequency Conversion with Gain Through Sideband Locking of an IMPATT Diode Oscillation. Y. FUKATSU - K. KATO.

Additional Optical Data Processing Techniques for Surface Roughness Studies. E. B. FELSEAD.

A Simplified Optical Correlator for Radar - Signal Processing. C. ATZENİ - L. PANTANİ.

The Effect of Vignetting on the Impulse Response of Coherent Optical Processors. S. HERMAN.

Transient Response Evaluation from the State Transition Matrix. S. GANAPATHY - A. S. RAO.

Observation of the Current and Voltage Waveforms of the Si IMPATT Diode. H. TORIZUKA H. YANAİ.

On Narrow-Band LC 70 MHz IF Filters. H. K. Y. LEE.

Negative Resistance in Current - Voltage Curves of Avalanche Diodes. A. W. CARLSON.

Microwave Holograms Using Liquid Crystal Displays. C. F. AUGUSTINE - W. E. KOCK.

Green's Function for the Steady State of a Periodically Excited Circuit. T. P. EGGARTER

A Temperature - Stable RC Transistor Oscillator. P. KUNDU - S. B. ROY.

An Analysis of Thermal and Space - Charge Spreading of Electron Beams from Guns of the Pierce Type. T. CHİSHOLM.

Space Division Multiplexing Holography. Y. AOKI.

Modified Scheme for Simulation of a Delayor for Polynomial Inputs. H. B. KEKRE.

New Aspects of Two Transverse Modes Locking with Multiple Longitudinal Modes in a He - Ne Laser. T. FUJİOKA - T. UCHİYAMA.

An Automatic Equalizer for Digital Repeated Lines. R. A. TARBOK.

Frequency-Stable Microstrip X-Band Gunn Oscillator. S. JONES.

Sampled-Data Multichannel Telemetry Using Pseudorandom Sequences. G. K. AGGARWAL.

Wave Propagation Cutoff in a Slightly Noncompensated Solid-State Plasma. D. L. CARTER.

Extended Definition of Initial Value Theorem Applied to the Bilateral Laplace Transform. K. R. RAO.

Approximate Calculation of Cumulative Probability from a Moment-Generating Function. C. W. HELSTROM.

On the Transverse-mode Dependence of the Laser Spiking Behavior. H. K. V. LOTSCH.

### IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT

Sayı 4/1968

Determination of an Absolute Capacitance by a Horizontal Cross Capacitor. T. İGARASHİ - Y. KOIZUMİ - M. KONNO.

A Varactor Null Detector for Audio Frequency Capacitance Bridges. R. D. CUTKOSKY.

Experimental Verification of the Five-Terminal Ten-Kilohm Resistor as a Device for Dissemination of the Ohm. G. D. VİNCENT - R. M. PİLTHORP.

An Electronic Multiplier for Accurate Power Measurements. M. TOMOTA - T. SUGİYAMO - K. YAMAGUCHI.

A Generating Voltmeter with Calculable Voltage-Current Ratio for Precise High-Voltage Measurements. W. CLAUSNİTZER.

The Measurement of Load Coefficients of DC Resistance Standards Using AC Loading Currents. G. E. BEARD - G. J. JOHNSON.

The Application of the Direct Current Comparator to a Seven-Decade Potentiometer. M. P. MAC MARTİN - N. L. KUSTERS.

Voltage-Ratio Measurement with a Precision of Parts in  $10^6$  and Performance of Inductive Voltage Dividers. J. J. HİLL - T. A. DEACON.

A 1-MHz Binary Inductive Voltage Divider With Ratios of 2n to 1 or 6n dB. C. A. HOER - W. L. SMİTH.

A New-High-Frequency Current Standard IS<sup>T</sup>. V. FREDERICK.

Precision Determination of the Dielectric Properties of Nonmagnetic High-Loss Microwave Materials. M. MAGÍD.

An Automatic Computer-Controlled System for the Measurement of Cable Capacitance. R. G. FULKS-J. LAMONT.

Computer-Operated Impedance Stability Measurement System. M. B. CHASEK - R. C. DRECHLER.

A New Precision Automatic Microwave Measurement System. S. F. ADAM.

Calibration of a Kerr Cell System for High-Voltage Pulse Measurements. E. C. CASSIDY-H. N. CONES-D. C. WUNSCH-S. R. BOOKER. A Novel Technique for Measuring Pulse-Train Jitter. A. SINGER- I. S. FRIEDBERG-E. NAESS-C. D. HARDIN.

A Predictable Subnanosecond step Generator. G. J. FRYE.

Picosecond Pulse Measurement of the Conduction Current versus Voltage Characteristic of Semiconductor Materials with Bulk Negative Differential Conductivity. B. J. ELLIOTT.

Removal of Intervening System Distortion by Deconvolution. R. L. RHOADS - M. P. EKSTROM.

Frequency Stability of a He-Xe Laser With Nonresonant Feedback. R. V. AMBARTSUMYAN-N. G. BASOV-V. S. LETOKHOV.

Absolute Frequency Stabilization of the  $3,39\text{-}\mu\text{m}$  Line on a  $\text{CH}_4$  Line. K. SHIMODA.

The Atomic Beam Tube as an Optical Frequency Standard. A. N. ORAEVSKY.

Design of a Double Focalization in a Hydrogen-Maser. C. AUDON-M. DESAINTE-FUSCIEEN P. PETIT - J. P. SCHERMANN.

A Monotron Oscillator with a Superconducting Cavity. F. BIQUARD-P. GRIVET-A. SEPTIER.

A Precision Microwave Admittance Measurements of Active Elements. S. FURUKAWA-S. AOYAGI

A Precision Frequency Measurement Technique for a Moving Signal with a Low Signal-to-Noise Ratio. W. B. KENDALL-P. L. PARSONS. Loran-C Sky-Wave Delay Measurements. L. D. SHAPIRO.

Worldwide Clock Synchronization Using a Synchronous Satellite. L. E. GATTERER-P. W. BOTTONE- A. H. MORGAN.

An RF-DC Substitution Calorimeter with Automatically Controlled Reference Power. M. L. CRAWFORD.

A Method of Determining the Mismatch Correction in Microwave Power Measurements. G. F. ENGEN.

Broad-Band Microwave Transmission Characteristics from a Single Measurement of the Transient Response. A. M. NJCOLSON.

Coaxial Swept-Frequency VSWR Measurements Using Slotted Lines. G. W. SÜRGER.

A Quasi-Optic Technique for Measuring Dielectric Loss Tangents. J. E. DEGENFORD.

NACHRICHTENTECHNISCHE ZEITSCHRIFT  
(Máj 1969)

Vertikal polarisierte logarithmisch-periodische Antenne mit  $\sqrt{4}$ -Strahlern. F. SCHILDHEUER-M. RUSSEGGER.

Elektronisch steuerbare Phasenschieber und Dämpfungsglieder in Streifenleitertechnik. H. GROLL - W. BERGHOFER - J. DETLEFSEN.

Ein hochauflösendes Verfahren der Elektronendichtemessung mit Hilfe der Laserinterferometrie. W. SCHALLER.

Antennen für Raumfluggeräte: Eine Übersicht über die Probleme und Ausführungsformen. K. KOOB.

Impulskompensation mit Hermite'schen Funktionen. D. ACHTLES.

Ein elektro-optischer Normwandler für Farbfernsehsignale. H. WENDT.

«Backfire» Antennen. H. W. EHRENSPECK. The Power Spectrum of a Video Signal. J. VAN DER PLAATS.

Data Transmission über Telephone Circuits. P. BOCKER.

NACHRICHTENTECHNISCHE ZEITSCHRIFT  
(Juli 1969)

Elektrooptische Resonanzmodulation im Mikrowellenbereich. B. HILL - G. WENCKER. Rekursive Berechnung von Einschwingvorgängen. H. KREMER.

Rauschanpassung in transistorisierten Empfangsantennen. H. H. MEINKE.

Die Wirkfläche einer Antenne für den Sendefall. G. F. KOCH.

Das Hyperbelverfahren zum berührungslosen Messen der Oberflächen grosser Parabolantennen. F. R. HUBER- M. SCHILLER.

Gibt es ein weiteres Additionstheorem für Besselsche Funktionen? H. MAHR.

Ein statistisch zeitvariantes System mit einer Differentialgleichung 1. Ordnung. O. MILDENBERGER.

Datenübertragung im Ortsnetz durch Gleichstromtastung-Ergebnisse eines Versuchsbetriebes. H. HORST - M. LANG.

Die individuellen Unterschiede bei Langzeitmessungen am Sprachsignal. H. MANGOLD.

Elementare Behandlung der Überkopplung von Impulsen und Sinuswellen zwischen parallelen Leitungen. W. HILBERG.

THE BELL SYSTEM TECHNICAL JOURNAL  
(Şubat 1969)

The Application of Delta Modulation to Analog-to-PCM Encoding. D. T. GOODMAN.

Diode Array Camera Tubes and X-Ray Imaging. T. C. LOOMIS - M.M. WEIS.

Approximate Large-Signal Analysis of IMPATT Oscillators. J. L. BLIUE.

Digital PM Spectra by Transform Techniques. L. LUNDQVIST.

PSK Error Performance with Gaussian Noise and Interference. A. S. ROSENBAUM.

New Time Division Switch Units for No. 101 ESS. T. E. BROWNE-D. J. WADSWORTH - R. K. YORK.

No. 101 ESS 4A Switch Unit. H. F. PRÛBE - E. L. SELEY.

ELECTRONIC APPLICATIONS - Components and Materials.

(Cilt 28 - Sayı 4)

Stable A. C. Gain from a simple direct-coupled amplifier. J. COHEN-J. OOSTERLING.

Thermal Drift in a Junction Transistor and its Effect on the Circuit. W. SMULDERS.

Hysteresis and Negative Resistance in the Schmitt Trigger. P. A. NEETESON.

A Camera Tube Amplifier with FET Input.

ELECTRONIC ENGINEERING

(Mayıs 1969)

Monolithic Amplifiers as Operational Elements. J. O. GRAY-M. J. JACKSON.

Voltage-Followers for D. C. Voltmeters. P. WILLIAMS.

Branching Loss in TB Cell-less Duplexers. N. M. BRADY.

Overload Protection of Transistors in Power Supplies.

Vitreous Silica in Electronics. G. HETHERINGTON-G. W. STEPHENSON - J. A. WINTERBURN.

Progress in Making Thin and Thick-Film Circuits. C. H. HOCKADAY.

Cross-Correlation Analysis using a Pseudo-Random Binary Sequence. H. WILSON.

High Speed Cable-Drive Unit. L. HART.

Noise in Common Source FET Amplifiers at moderately High Frequencies. F. N. H. ROBINSON.

REVIEW OF THE ELECTRICAL COMMUNICATION LABORATORY

(Cilt 11 Sayı 1-2)

Theoretical Study of PCM Repeated Line Error Rate Degradation Characteristics. T. ARATANI.

An Experimental 200 Mb/S PCM Repeater. T. ARATANI - U. INOUE - K. FUJISAKI - M. TAGUCHI.

A Logic Block Simulator (LBS) K. IIDA-T. WAKAYAMA.

Ga As Bulk Oscillators R. NII-Y. KAWASAKI-T. HONDA-T. YAMADA.

Investigation of Si O<sub>2</sub> Surface Topography and Si O<sub>2</sub> Interface Structure. K. ONO - T. YASHIRO- S. YAĞI.

Memory Circuit Using Esaki Diode. T. BESSHO-Y. HIYAMA-H. NHYAMA.

Avalanche Breakdown in P-N Junctions. Y. SUNOHARA.

L'ONDE ELECTRIQUE

(Sayı 505)

Le Satellite Scientifique Européen ESRO I (Aurora): Presentation du Satellite. G. PHÉLIZON.

La Mission Scientifique du satellite Aurorae Dr. R. JAESCHKE.

Integration du Satellite ESRO I. F. LAJES-UNESSE.

Le Systeme de Contrôle Centralisé du Satellite ESRO I. F. CHENON.

Le Systeme de Télécommunication du Satellite Aurorae. P. PELLET.

Le Systeme de Télémesure du Satellite Aurorae ESRO I. J. L. LAVOISARD.

Le Systeme de Télécommande embarqué des Satellites ESRO I. et ESRO H. R. GOSMAND.

Le Magnétomètre de Restitution d'Attitude du Satellite Aurorae. J. PELEN - G. GUILLEMIN A. SCHILLIGER.

Tests de Courbes Magnétiques Minces par Effet Kerr, en Lumière Cohérente. R. LANGLET. Dispositif de Mesure Automatique de l'Amplitude et du Déphasage, de Signaux en Ondes Courtes et Ultra-Courtes. M. DUPUIS.

Machine Hybride Spécialisée Permettant la Résolution par Iteration d'un Systeme d'Equations

Linéaire, Homogène et Paramétrique. K. MES-  
NARDS - S. LEBLANC.

Erreur de Situation dans les Mesures Radioélec-  
trique d'Azimut. A. VTOLET.

Plans d'Assignation de Fréquences pour les Sa-  
tellites de Télécommunication. J. F. ARNAUD.

#### JAPANESE TELECOMMUNICATIONS REVIEW

(Cilt 11 Sayı 1)

Development of Microwave Communication En-  
gineering in Japan. Dr. HIROJI KUROKAWA.

2 GHz Microwave PCM System. K. YOSHIDA-  
K. TACHIKAWA - R. TANAKA - H. FUKEDA.

Mastergroup Switching System for High-Reliabi-  
lity Trunk Dialing. M. MAKUSTO.

Mastergroup Switching System for High-Reliabi-  
lity Toll Transmission Network. S. AOE - M. IS-  
HIKAWA - S. OKADA.

200-Baud Serial Printer. T. MODEKI - Y. TANA-  
KA.

### ELEMAN ABANIYOR

Tekel Genel Müdürlüğü, Yozgat Bira Fabrikası için 4/10195 sayılı  
Yevmiyeli Teknik Personel talimatnamesine göre çalıştırılmak üzere 1  
Elektrik Y. Mühendisi aramaktadır.

İsteklilerin Tekel Genel Müdürlüğü Müskirat Fabrikaları Şubesi Mü-  
dürlüğü - İstanbul adresine başvurularını gerekmektedir.

### ELEMAN ARANIYOR

NATO Enfrastrüktür Daire Başkanlığının Merkez ve Taşra Teşki-  
lâtında 4/10195 sayılı kararname esasları dahilinde çalıştırılmak üzere  
aşağıdaki evsafa Yüksek Mühendis ve Mühendise ihtiyaç hasıl olmuştur.

- 1 — 45 yaşını aşmamış olmak
- 2 — En az 5 yıl Şantiye tecrübesi olmak
- 3 — İngilizceyi bilmek, iki lisan bilenler tercih edilir
- 4 — Askerlikle ilişkisi bulunmamak

İsteklilerin NATO Enfrastrüktür Daire Bşk. Personel Şb. Md. Kavak-  
lıdere, Paris Cad. 52 Ankara adresine başvurularını duyurulur.

### DUYURU

Makina ve Kıvya Endüstri Kurumu Genel Müdürlüğü tarafından imal  
edilen Elektrik Sayaçlarına Odamızca kalite belgesi verilmiştir.