

## TEKNİK BASINDAN SEÇMELER

Sayın Üyelerimiz,

Dergimizin bu sayısından itibaren sizlere elektrik mühendisliği ile ilgili yabancı dergilerde yayınlanan makalelerden meslekdaşlarınıza için faydalı olacakların özetlerini sunacağız.

Özetleri yayınlanan bu makaleler ile ilgilenen üyelerimize veya meslekdaşlarınıza isteklerine göre makalelerin tam metninin tercümeleri veya orijinalleri Odamızca gönderilecektir.

Bilhassa Usan bilmeyen veya yabancı yayınları izlemek imkânını bulamayan üyelerimiz için faydalı olacağına inandığımız bu teşebbüsümüzün gelişmesi, gösterilecek ilgiye bağlı olacaktır.

Saygıduuzla,  
YÖNETİM KURULU

TRANSMİSSİON AND DİSTRİBÜTİON un Temmuz 1969 sayısı Trafo Merkezlerinin dizaynına ve işletmesine ayrılmıştır. Yazılarda Trafo merkezlerinin görünüşü, teçhizatın kullanılışı, role korunması, topraklama, korozyon kontrolü, bakım, otomatik bara deęiştirme tedbirleri ile sistem güvenilirliğinin artırılması, istasyonların özellikleri konuları işlenmiştir. Bu arada

I. A. VAN FOSSEN, «FLORİDA POWER CORP»'ın «istasyonların test programı yılda 1/4 milyon dolar tasarruf sağlar» yazısında teçhizatla yapılacak koruyucu bakımın işletmeye sağladığı tasarruflar anlatılmış koruyucu bakım için kullanılan cihazların listesi ve karakteristikleri ile teçhizatın periyodik bakım ve muayene süreleri cetveller halinde verilmiştir.

TRANSELEKTRO NEWS'un 12 ve 13 numaralı baskısında P. IGNACZ'ın kirli Atmosfer içinde izolatörlerin en iyi koruyucusu Silikon Gresler yazısında sanayi bölgelerindeki kirli havanın izolatörlerde yüzeysel atlamaları artırdığı, buna karşı korunma tedbirlerinin neler olduğu anlatılmış ve bunlar arasında Silikon Gresle izolatörlerin kaplanması, bu metodun deney neticeleri, üstünlükleri, silikon gresin koruyucu tesiri, silikon greslemenin veriminin sınırları, işletme şartlarında yapılan deneyler, teknik ve Ekonomik bakımından diğer koruyucu metodlarla karşılaştırılması ve ilâve ekonomik düşünceler açıklanmıştır.

Netice olarak, açık hava istasyonlarında izolatörlerin silikon greslenmesi her halde faydalı olmaktadır.

PROCEEDINGS OF THE IEEE (Nisan 1969)

Weak Scattering in Random Media, with Applications to Remote Probing. R. W. LEE - J. C. HARP.

Fluctuations of a Focused Beam Wave for Atmospheric Turbulence Probing. A. İSHİMARU.  
Remote Probing of the Optical Strength of Atmospheric Turbulence and of Wind Velocity. D. L. FRİED.

Electromagnetic Scattering from Small Dielectric Gradients in a Continuous Medium. R. R. WEISS  
H. M. SWARM.

Passive Remote Sensing at Microwave Wavelengths. D. H. STAELİN.

The Influence of Clouds on Microwave Brightness Temperatures Viewing Downward over Open Seas. W. T. KREISS.

A multiwavelength Line of Sight Experiment for Remote Atmospheric Sensing. C. BEARD - W. T. KREISS - W. G. TANK.

Sensing the Earth's Atmosphere with Occultation Satellites. B. LUSIGNAN - G. MODRELL - A. MORRISON - J. POMALAZA - S. G. UNGAR.

Probing the Clear Atmosphere with High Power, High Resolution Radars. K. R. HARDY - I. KATZ.

Some Current Developments in Radio Systems for Sounding Ionospheric Structure and Motions. J. W. WRİGHT.

Remote Sensing of the Terrestrial Environment with an HF Radio High - Resolution Azimuth and Elevation Scan System. L. H. TVETEN - R. D. HUNSUCKER.

Radio Wave Reflections from Large Horizontal Gradients in the Topside Ionosphere. W. L. CLARK - J. R. MC AFEE - R. B. NORTON. J. M. WARNOCK.

Theory and Practice of Ionosphere Study by Thomson Scatter Radar. J. V. EVANS.

Optical Doppler Measurement of Microscale Wind Velocity. J. C. OWENS.

- Indirect Atmospheric Measurements Utilizing Rake Tropospheric Scatter Techniques - Part I: The Rake Tropospheric Scatter Technique. B. B. BARROW - L. G. ABRAHAM - W. M. COWAN - R. M. GALLANT.
- Indirect Atmospheric Measurements Utilizing Rake Tropospheric Scatter Techniques - Part II: Radiometeorological Interpretation of Rake Channel - Sounding Observations. W. P. BÍRKEMEÍER - P. F. DUVOÍŠÍN - A. B. FONTAÍNE D. W. THOMSON.
- Multisensor Detection of Ionospheric Phenomena A. G. JEAN - G. M. LERFALD - W. L. FLOCK.
- Acoustic Methods for the Remote Probing of the Lower Atmosphere. C. G. LÍTTLE.
- Acoustic Sounding - A New Approach to the Study of Atmospheric Structure. L. G. Mc ALLÍSTER - J. R. POLLARD - A. R. MAHONEY P. J. R. SHAW.
- The Radar Radiometer. R. K. MOORE - F. T. ULABY.
- Panchromatic and Polypanchromatic Radar. R. K. MOORE - W. P. WAÍTE - J. W. ROUSE.
- Some Aspects of Remote Sensing as Applied to Oceanography. V. E. NOBLE - R. D. KETCHUM D. B. ROSS.
- Arctic Ice Type Identification by Radar. J. W. ROUSE.
- Radar Studies of the Earth. W. E. BROWN.
- Coherence Polarization Phenomena in Remote Sensing. W. G. EGAN - H. B. HALLOCK.
- The Physical Basis of System Design for Remote Sensing in Agriculture. R. A. HOLMES - R. B. MAC DONALD.
- Information Processing of Remotely Sensed Agricultural Data. J. K. S. Fu - D. A. LANDGREBE - T. L. PHÍLLIPS.
- Pattern Recognition with Measurement Space and Spatial Clustering for Multiple Images. R. M. HARALÍCK - G. L. KELLY.
- Relating Remote Sensor Signals to Ground - Truth Information. W. G. EPPLER - R. D. MERRÍLL.
- On a Limitation of Multifrequency Atmospheric Probing. P. A. MANDÍCS - R. W. LEE?
- Analysis of Cross - Polarized Components of Radar Reflection Data. B. L. BASORE.
- High Efficiency Conditions for an ideal Nonlinear Capacitor Frequency Multiplier. S. BOCTOR D. J. ROULSTON.
- New Simulation of a Delayor for Polynomial Inputs. C. MÍRON.
- Fast Fourier Integration of Piecewise Polynomial Functions. E. A. ARONSON.
- Performance of Cadmium Sulfide Thin Film Solar Cells in a Space Environment. A. G. STANLEY.
- On Trajectory Sensitivity In Optimal Control. E. KREINDLER.
- Guided - Wave Propagation Through Magneto-electric Media. M. TSUTSUMI - T. TOMÍYA - K. AOYAGÍ.
- Note on Corrective Filters for Multipath Propagation. M. J. E. GOLAY.
- On some Extensions of Myquist's Telegraph Transmission Theory. R. DE KOE - P. VAN DER WURF.
- Relations Between Temperature Behavior of Resonant and Antiresonant Frequencies and Electromechanical Coupling Factors of Piezoelectric Resonators. M. ONOE.
- Comments on Line of Sight Propagation Through the Turbulent Atmosphere. M. J. BERAN.
- On the Charge Neutral Electric Field in a Semiconductor of Homogenous Conductivity Type. D. P. KENNEDY - R. R. O'BRIEN.
- A Theorem useful in Two Dimensional Error Detection. K. BRAYER.
- Stacked High - Power Avalanche - Diode Oscillators. S. G. LJU.
- Spectra of Position Modulated Pulse Trains. V. KROUPA.
- On the wide - Band RC Phase Shifter. T. SUEZAKI - S. TAKAHASHI - S. HASHÍMOTO.
- Acoustic Beam Scanning by Optical Control of Piezoelectric Coupling. B. A. AULD - D. C. WEBB - D. K. WÍNSLOW.
- Temperature Compensation in a Voltage Level Shift Network. B. L. HART.
- Injection Phase - Locking Characteristics of LSA - Mode Transferred - Electron Oscillators. J. P. QUÍNE.
- The Measurement of Current Distribution in Isolated - Phase Bus Enclosures. R. T. H. ALDEN - P. E. BURKE.
- On the Static Collector - Emitter Saturation Voltage of a Transistor with a Lightly Doped Collector. W. J. CHUDOBIAK.
- Orotron - An Electronic Oscillator with an Open Resonator and Reflecting Grating. F. S. RUSIN - G. D. BOGOMOLOV.
- Plane Wave Reflection and Transmission by a Unidirectionally Conducting Screen. S. R. SE SHADRI.
- Fast Folding Algorithm for Detection of Periodic Pulse Trains. D. H. STAELTIN.
- A Single Operational Amplifier Notch Filter. R. M. INIGO.
- FM Distortion: A Comparison of Theory and Measurement. J. H. ROBERTS.
- The Distribution of F. M. Discriminator Click Widths. W. H. LOB.

Stochastic Approximation Procedures for Engineering Applications. T. P. DANIELL.

An Evaporated Heterostructure Diode Strain Sensor R. M. MOORE - C. J. BUSANOVICH.

An Approach to Calculating Interchannel Distortion of Linearly Filtered Angle - Modulated Signals Using a Hybrid Computer. A. ANUFF - M. L. LIU

Coupling of Modes on a Cylindrical Tapered Dielectric Rod. A. W. SNYDER.

Measurement of Noise Quality of MIG Beam Noise. W. R. CURTICE.

100 MHz Surface Acoustoelectric Amplifier Exhibiting Stable Terminal Gain with DC Drift Field. K. M. LAKIN - J. H. COLLINS

PROCEEDINGS OF THE IEEE (Mayis 1969)

Automation Developments in the Control of Interconnected Electric Utility Systems.

H. J. FIEDLER - L. K. KIRCHMAYER.

Ferroelectric Ceramic Electrooptic Materials and Devices. C. E. LAND - P. D. THACHER.

Collinear Heterodyning in Optical Processors.

H. R. CARLETON - W. T. MALONEY - G. MELTZ.

Direct - Feedback Coders : Design and Performance with Television Signals. R. C. BRAINARD J. C. CANDY.

Homodyne Detection of Infrared Radiation from a Moving Diffuse Target. M. C. TEICH.

Computer Simulation of LSA Oscillators with High Doping to Frequency Ratios.

P. JEPPESEN.

Wide Tuning Range S. Band Maser.

D. J. MILLER.

Some Possible Parametric Interactions in III - V Semiconductors. Om. P. GANDHI.

On the output spectrum of Unlocked Driven Oscillators. M. ARMOND.

High Power Varactor Package for Multichip Application. D. D. TANG.

Observation of Electroacoustic Resonance in a Reentry Sheath. C. D. LUSTIG.

DC Behaviour of Si Diodes in Magnetic Fields. W. J. KITCHEN.

Electron Beam Addressed Plasma Display Panel R. GREGORY - M. L. BISHOP.

Far Infrared and Submillimeter Impact Ionization Modulator. I. MELNGAILIS P. E. TANNENWALD.

Generation of a Variable - width Subnanosecond Optical Pulse. D. G. GARLSON.

Low Frequency Locking of a Two - Resonator Parametric Oscillator. P. J. KHAN.

Note on the Optimal Transversal Equalizer for a Dual Multipath Noiseless Channel. M. J. DI TORO.

Unipolar Pulse Transmission by a Coaxial Cable Loaded with a Tunnel - Diode - Pair Unilateral Regenerator. S. MIZUSHINA.

Microwave Hologram by Photoengraving. K. ITZUKA.

CW Oscillations in GAAS Planar - Type Bulk Diodes. K. SEKIDO - T. TAKEUCHI - F. HASEGAWA.

Impulse Response Waveforms of a Perfectly Conducting Right Circular Cylinder.

D. L. MOFFATT.

Detection of Slowly Fading Targets with Frequency Agility. K. L. HORN - N. D. WALLACE

On the Transverse Surface Boundary Effect in Gunn Devices. R. W. H. ENGELMANN.

H Guide with Laminated Dielectric.

F. J. TISCHER.

Effect of Parasitic Elements on Parametric Amplifier Nonresonant Gain Maximum.

P. J. KHAN.

Use of Multiple Reference Sources to Increase the Effective Field of View in Lensless Fourier - Transform Holography. J. D. GASKILL - J. W. GOODMAN.

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A Digital Technique for Time - Base Error Compensation. R. C. HOUTS - D. W. BURLAGE - R. S. SIMPSON - R. C. DAVIS.

New Energy Theorems in Fourier Transform Theory. R. K. MONHERZ.

Coupled - Mode Theory of the Crossed - Field Instability. V. K. MISRA - R. P. WADHWA.

Diffractional Distortions in Beam Waveguides with off Axis Beams. J. R. CHRISTIAN - J. W. MINK G. GOUBAU - F. K. SCHWERING.

The Maximum Signal Separation on an N - Channel Communication Link with Rayleigh Fading P. J. NAHIN.

Star - Shaped Coaxial Transmission Lines.

R. K. ARORA - R. L. DASS.

Unidirectional Surface Wave Transducer. J. H. COLLINS - H. M. GERARD - T. M. REEDER - H. J. SHAW.

Realization of All - Pass Characteristics by Dual Inputs. N. SER ROY.

Theorems on Exact Monuniform Transmission Lines. A. G. J. HOLT - K. U. AHMED.

A Method of Varying Phase Shift in a Phase - Locking Inverter. R. SUBBAYYAN . S. PADMANABHAN

Induced DC Negative Resistance in Avalanche Diodes. A. S. CLOREFINE - R. D. HUGHES.

Reflexion of Circularly Polarized Waves from Imperfect Spheres. F. GARDNER.

Linear Phase Digital Filter Design.

D. J. NOWAK.