

**ELECTRONIC
INDUSTRIES**

1965

Annual Index

of

Editorial Features

ANNUAL INDEX OF ARTICLES--1965

BOOKS

Month &
Page No.

ABC's of Electronic Test Equipment... Donald A. Smith	6-115
AC Carrier Control Systems... Keith A. Ivey	4-144
A History of the General Radio Company... Arthur E. Thiessen	9-137
American Microelectronics Data Annual--1964-65... Messrs. Dummer & Robertson	6-134
Amplifier and Memory Devices: With Films and Diodes... Edited by N. Prywes	5-120
Analysis and Synthesis of Linear Time-Variable Systems	5-119
An Exploratory Study of the Structure and Dynamics of the R&D Industry... Messrs. Shapero, Howell & Tombaugh	6-134
Application Guide for RCA Memory Products (MP-315)	12-118
ASTM Standards, Part 29: Electrical Insulating Materials	11-125
An Introduction to Patents for Inventors and Engineers... C.D. Tuska	5-119
Automotive Electronics Test Equipment... Allan Lytel	6-115
Basic Electronic Test Instruments... Rufus P. Turnar	6-113
Biomedical Electronics Equipment... S. Zimmerman	9-137
British Miniature Electronic Components Data, 1965-66	12-118
Commercial Profits from Defense--Space Technology--An Action Guide... Edited by W.R. Purcell, Jr.	9-137
Control System Design... Stanley M. Shinnors	5-118
Datadex Transistor Reference Book, 2nd Ed.... Messrs. Kilpatrick & Dittrich	5-120
Data Transmission... Messrs. Bennett & Davey	4-145
Data Transmission and Data Processing Dictionary... James F. Holmes	12-118
Dictionary of Data Processing... Compiled by Messrs. Trolhann & Wittmann	5-118
Digital Logic Laboratory Workbook... Barbara W. Stephenson	12-118
Discharge Detection in High Voltage Equipment... Dr. F.H. Krauger	9-137
Electrical Engineering... Julius I. Franklin	5-118
Electrodynamics... Messrs. Page & Adams, Jr.	10-123
Electromagnetic Field Theory... Robert D. Stuart	12-118
Electromechanical Control Systems and Devices... Eugene B. Canfield	10-123
Electronic Ceramics... Dr. John H. Koenig	10-123
Electronic Instrumentation... Sol D. Prenskey	6-113
Electronic Instruments... Edited by Messrs. Greenwood, Jr., Holdam, Jr. & Macrae, Jr.	6-115
Electronic Measurements... Messrs. Terman & Pettit	6-114
Electronic Measuring Instruments... Harold E. Soisson	6-114
Electronic Precision Measurement Techniques and Experiments	6-114
Electronic Test Instrument Handbook... Joseph A. Risse	6-115
Electronic Tests and Measurements... Robert G. Middleton	6-115
Electronic Time Measurements... Edited by Messrs. Chance, Hulsizer, MacNichol & Williams	6-115
Electronics and Instrumentation... Robert T. Tamey	6-113
Electronics Systems for Convenience, Safety, and Enjoyment... Edward A. Altshuler	9-137
Elementary Circuit Properties of Transistors... Messrs. Searle, Boothroyd, Angelo, Jr., Gray & Pederson	5-120
Elementary Electrical Network Theory... D.G. Tucker	5-120
Engineering Systems Analysis... A.G.J. MacFarlane	5-118
Fundamentals of Radio... Murray P. Rosenthal	9-137
Fundamentals of Relay Circuit Design... Alan R. Knoop	5-120
German-English and English-German Electronics Dictionary... Charles J. Hyman	12-118
Handbook of Electron Beam Welding... Messrs. Bakish & White	5-120
Handbook of Electron Tube and Vacuum Techniques... Fred Rosebury	5-119
Industrial Electronics Measurement... Edited by Alexander Schure	6-113

BOOKS (Cont'd)

	<u>Month & Page No.</u>
Information, Computers, and System Design... Messrs. Wilson & Wilson	12-118
Integrated Circuits: Design Principles and Fabrication	6-134
Introduction to Microwave Theory and Measurement... A.L. Lance	5-120
Introduction to Semiconductor Devices... M.J. Morant	4-145
Linear Electric Circuits... Wallace L. Cassell	5-120
Managerial and Engineering Economy: Economic Decision-Making	5-120
Manual of Electromechanical Devices: Component Types, Characteristics, Design Application... Douglas C. Greenwood	5-119
Measurement Engineering, Vol. 1: Basic Principles... Peter K. Stein	4-145
Micropower Logic Circuits... John C. Sturman	10-123
Microwave Measurements Manual... Messrs. Kellejian & Jones	6-114
Microwave Scanning Antennas: Vol. 1, Apertures... R.C. Hansen	9-137
Microwave Tube Characteristics Networks and Telephone Traffic... V.E. Benes	11-125
Microwave Tube Characteristics Tabulation 14th Ed.	11-125
Modern Oscilloscopes and Their Uses... Jacob H. Ruiter, Jr.	6-114
Modern Science and Technology... Robert Colborn	11-125
Multidimensional Gaussian Distributions... Kenneth S. Miller	5-120
Nondestructive High Potential Testing... Harold N. Miller	4-145
Optimal Estimation, Identification, and Control... Robert C.K. Lee	4-145
Photometry, 3rd Ed.... John W.T. Walsh	11-125
Physical Networks... Richard S. Sanford	10-123
Planning & Preparing Data-Flow Diagrams... J.J. DeCerto	5-120
Practical Oscilloscope Handbook... Rufus P. Turner	6-113
Practical PERT... B.J. Hansen	4-145
Principles of Electronic Instrumentation... Messrs. Lynch & Truxal	6-114
Principles of Electronic Instruments... Gordon R. Partridge	6-114
Probability and Information Theory with Applications to Radar, 2nd Ed.... P.M. Woodward	5-120
Probability and its Engineering Uses, 2nd Ed. ... Thornton C. Fry	10-123
Project Estimating by Engineering Methods... Paul F. Gallagher	5-120
Radio and Television Receiver Circuitry and Operation, Revised Ed. Messrs. Ghirardi & Dines	5-120
Radio Spectrum Utilization	4-144
Rectifier Circuits: Theory and Design... Johannes Schaefer	10-123
Selected Papers and Mathematical Trends in Control Theory... Edited by Messrs. Bellman & Kalaba	5-120
Selected Papers on Semiconductor Microwave Electronics... Edited by Messrs. Levine & Kurzok	4-145
Semantic Mathematics: An Introduction to the Concept of Calculating Notations... Morris Lewis Groder	9-137
Semiconductor Junctions and Devices... Messrs. Buford, III & Verner	11-125
Servomechanism Fundamentals and Experiments	5-120
Single Sideband Handbook... William P. Hanneberry	5-119
Space-Age Acronyms: Abbreviations and Designations... Reta C. Moser	4-144
Space Probes and Planetary Exploration... William Corliss	9-137
Switching Theory, Vol. 1: Combinational Circuits... Raymond E. Miller	9-137
Technical Writer's & Editor's Stylebook... Rufus P. Turner	10-123
Test Equipment Maintenance Handbook... Robert G. Middleton	6-115
Theory of Indirect Speed Control... M. Nechleba	9-137
Theory of Sampled-Data Control Systems... David P. Lindorff	5-119
The Nature of Induction Machines... Philip L. Alger	10-123
The Structure and Properties of Materials, Vol. 2 - Thermodynamics of Structure... Messrs. Propy, Rose & Wulff	4-145
The Transistor-Basic Theory and Application,.. Joachim Dosse	6-134
The Uses of Ferrites at Microwaves... L. Thourel	4-145
2-Way Mobile Radio Handbook, Revised Edition... Jack Helmi	11-125

CIRCUITS

	<u>Month & Page No.</u>
AC Carrier Control Systems... Keith A. Ivey	4-144
A Curve Tracer for Field-Effect Transistors	9-130
A Look at Linear Integrated Circuits... William L. Fowler	9-64
American Microelectronics Data Annual--1964-65... Edited by Messrs. Dummer & Robertson	6-134
Amplifier and Memory Devices: With Films and Diodes... Edited by N. Prywes	5-120
Applications of Collector Logic... M.J. Slonaker	8-76
Applying Poles and Zeros to Nonlinear Networks... Arden Thomas Moses	3-98
A Semiconductor Servo for DC Control... Baruch Berman	4-76
A Simple Approach to Operational Amplifier Design.... Messrs. Brown & Savage	7-70
Automated Plant and Advanced Circuitry Shown	12-37
Circuit Features Zero-Level Clipping	6-152
Datadex Transistor Reference Book, 2nd Ed.... Messrs. Kilpatrick & Dittrich	5-120
Data Transmission... Messrs. Bennett & Davey	4-145
Decentralized Voltage Regulation	4-108
Design for a Simple Voltage Regulator... Allan Perlin	6-162
Designing Varactor-Tuned Circuits... George Strickholm	8-72
Design Technique for Wideband Microwave Links... J.E. Cole	11-58
Digital Integrated Circuits	2-66
Digital Integrated Circuits and Their Limiting Factors	9-70
Electromagnetic Field Theory.... Robert D. Stuart	12-118
Elementary Circuit Properties of Transistors... Messrs. Searle, Boothroyd, Angelo, Jr., Gray & Pederson	5-120
Elementary Electrical Network Theory... D.G. Tucker	5-120
Front and Back P-C Layouts on Single Sheet	1-79
Fundamentals of Radio... Murray P. Rosenthal	9-137
Fundamentals of Relay Circuit Design... Alan R. Knoop	5-120
Growing Pains in Integrated Circuits	4-1
How to Specify High Voltage Silicon Diode Stacks... Neville Mapham	2-74
Integrated Circuits Commercially Available	10-97
Integrated Thin-Film Network, Soon...	1-87
Introduction to Microwave Theory and Measurement... A.L. Lance	5-120
Introduction to Semiconductor Devices... M.J. Morant	4-145
Linear Electric Circuits... Wallace L. Cassell	5-120
Looking at Integrated Circuit Costs and Failures... Robert A. Bernay	12-76
Materials for Packaging Microelectronic Devices	1-66
Mating the Thin Film and Semiconductor Technologies... Max J. Schuller	4-62
Measuring DC Relay Coil Transients... Robert D. Goldblum	4-68
Micropower Logic Circuits... John C. Sturman	10-123
Multidimensional Gaussian Distributions... Kenneth S. Miller	5-120
Notes on the Measurement of SNR... I. Dlugatch	12-100
Optimizing the Performance of Silicon Reference Elements... Clarence L. Wallace	3-95
#76 Parallel Tuned Circuit Calculations... Paul L. Conant, Sr.	2-83
Portable Squib Tester	4-72
Practical Design of All-Pass Networks... Anatol I. Zverev	2-77
Probability and Information Theory with Applications to Radar, 2nd Ed. ... P.M. Woodward	5-120
Radio and Television Receiver Circuitry and Operation, Revised Ed. ... Messrs. Ghirardi & Dines	5-120
Radio Spectrum Utilization	4-144
Rectifier Circuits: Theory and Design... Johannes Schaefer	10-123
Reliability Through Redundancy... Norbert Seiden	7-65
Semiconductor Junctions and Devices... Messrs. Buford, III & Verner	11-125
Solid State Relay for Data Communication... ZVI Mishory	4-80

CIRCUITS (Cont'd)

Month &
Page No.

Suppressing Relay Coil Transients... John S. Jordan	4-73
Switching Theory, Vol. 1: Combinational Circuits... Raymond E. Miller	9-137
The Broad Aspects of Testing Integrated Circuits... Everett Hanlon	10-82
The Impact of Integrated Circuits on Industry Roles... Herbert M. Isaacson	4-53
Theory of Indirect Speed Control... M. Nechleba	9-137
The Status of Monolithic and Thin Film Circuits... J.W. Lathrop	6-38
The Transistor-Basic Theory and Application... Joachim Dosse	6-134
Thin-Film Hybrid Approach to Integrated Circuits... Ralph Saunders	6-34
2-Way Mobile Radio Handbook, Revised Edition... Jack Helm	11-125
Understanding Plasma Diodes and Amplifiers... L. Zelby	11-64
Using Field Effect Transistors for Digital Circuits... Harold Y. Wong	5-95
Variable Load Tests Supplies	12-80
Voltage Controlled Oscillator	12-66
What Electronic Engineers Should Know About Plasma... Leon W. Zelby	3-90

COMPONENTS

A Miniature R-F Switch for Space Applications... Messrs. Ward, Schwanke & Russell	9-89
Application Guide for RCA Memory Products (MP-315)	12-118
A Practical Component Packaging System... W.A. Koenig	11-46
British Miniature Electronic Components Data... 1965-66	12-118
Broadband Signal Sampler Has Adjustable Capacity	5-136
Coaxial Connector for Printed Circuit	5-74
1965 Connector Specifications Guide, Part 1: Printed Circuit Connectors	1-48
1965 Connector Specifications Guide, Part 2: Connectors for Coaxial Cable & Shielded Cable	2-52
1965 Connector Specifications Guide, Part 3: Multi-pin Connectors	4-40
1965 Connector Specifications Guide, Part 4: Plugs & Jacks	7-84
Control Returned to System Designer	12-54
Decentralized Voltage Regulation	4-108
Ferrite Sheet Memory Modules	2-68
Frequency Multiplication with Power Gain	12-41
Fundamentals of Relay Circuit Design... Alan R. Knoop	5-120
How to Specify High Voltage Silicon Diode Stacks... Neville Mapham	2-74
Improved Circuits for Testing SCR's... H.R. Camenzind	6-93
Information, Computers, and System Design... Messrs. I.G. Wilson & M.E. Wilson	12-118
Integrated Circuit Holder Eliminates Broken Leads....	4-106
Late Developments in Capacitor Design... Rudolf F. Graf	6-70
Lightweight Image Orthicon	3-106

COMPONENTS (Cont'd)

	<u>Month & Page No.</u>
Looking at Integrated Circuit Costs and Failures... Robert A. Bernay	12-76
Manual of Electromechanical Devices: Component Types, Characteristics, Design Applications.... D.C. Greenwood Applica	
Manufacturers of Coaxial Cable and Shielded Cable Connectors (Conclusion)	2-60
Manufacturers of P-C Connectors & Terminations	1-56
Memory Devices for Modern Computer Memories... Andrew C. Knowles	12-70
Microwave Cable May Replace Waveguide...	4-108
New Coaxial Switch Concept	11-35
Optimizing the Performance of Silicon Reference Elements... Clarence L. Wallace	3-95
Plug-in Flat Packs	8-134
Potentiometer Linearity Considerations... Robert W. Kordatzky	10-95
RFI Leaks Eliminated	7-50
Self-Renewing Contacts on New Mercury Relay	11-35
Solid State Relay for Data Communication... Z. Mishory	4-80
1965 Survey of Commercial Semiconductor Photosensitive Devices, Part 1: Photoconductors... R.D. Kaus	7-73
1965 Survey of Commercial Semiconductor Photosensitive Devices, Part 2: Photovoltaic Diodes	8-83
1965 Survey of Commercial Semiconductor Photosensitive Devices, Part 3: Phototransistors, PNP Light-Activated Devices and Manufacturers... R.D. Kaus	9-82
1965 Survey of Relay Specifications, Part 1: Reed Relays and Sensitive Relays	3-40,48
1965 Survey of Relay Specifications, Part 2: Stepping Relays & High Voltage Relays	5-47
1965 Survey of Relay Specifications, Part 3: Power Relays	8-52
1965 Survey of Relay Specifications, Part 4: Special and General Purpose Relays	9-95
1965 Survey of Potentiometer Specifications, Part 1: Precision Potentiometers	10-64
1965 Survey of Potentiometer Specifications, Part 2: Special Purpose Potentiometers	11-90
1966 Survey of Switch Specifications, Part 1: Toggle Switches	12-88
Testing Silicon Rectifiers... David L. Mohn	8-110
Twenty Flat Packs in 1.4 Cubic Inches	6-79
Using Field Effect Transistors for Digital Circuits... Harold Y.Wong	5-95
Using SCR's in Power Control Systems... W.H. Pollard III	10-86

COMPUTERS

Application Guide for RCA Memory Products (MP-315)	12-118
A Survey of Optical Character Recognition... Don Stevens	12-62
Basic Considerations in Time-Sharing... Kenneth O. Fisketjohn	12-82
Carrier Device Uses Air Floated Tape	1-62
Computer Apprehends Offenders	10-118
Computer Sets Type	9-32
Data Transmission and Data Processing Dictionary... James F. Holmes	12-118
Dictionary of Data Processing... Compiled by Messrs. Trolhann & Whittmann	5-118
Digital Logic Laboratory Workbook... Barbara W. Stephenson	12-118
Diode Matrix Allows Custom Designing at No Extra Cost	5-135
Ferrite Sheet Memory Modules	2-68
IBM Doubles 360 Recording Speed	10-120
Information, Computers, and System Design... Messrs. Wilson & Wilson	12-118
Integrated Circuits: Design Principles and Fabrication	6-134
Legal Protection for Computer Software... Edward C. Gonda	12-110
Low Cost Mass Core Memory	5-130
Low-Cost, Time-Sharing Computer	12-54

COMPUTERS (Cont'd)

Low-Power Computer Memory	9-81
Memory Devices for Modern Computer Memories... Andrew C. Knowles	12-70
More Computing Power Per Dollar... J. Burt Totaro	12-58
New Computer Series Features Integrated Circuits	1-112
Planning & Preparing Data-Flow Diagrams... J.J. DeCerto	5-120
Shift Register Design Using Tunnel Diodes... Dieter R. Lohrmann	2-81
Single-Stack Core Memory	8-133
Theory of Sampled-Data Control Systems... David P. Lindorff	5-119
Thin-Film/IC Computer	8-132
Using Field Effect Transistors for Digital Circuits... Harold Y. Wong	5-95

DESIGN

AC Carrier Control Systems... Keith A. Ivey	4-114
A Curve Tracer for Field-Effect Transistors	9-130
A Look at Linear Integrated Circuits... William L. Fowler	9-64
A Semiconductor Servo for DC Control... Baruch Berman	4-76
A Simple Approach to Operational Amplifier Design... Messrs. Brown & Savage	7-70
American Microelectronics Data Annual--1964-65... Edited by Messrs. Dummer & Robertson	6-134
A Miniature R-F Switch for Space Applications... Messrs. Ward, Schwanke & Russell	9-89
Amplifier and Memory Devices: With Films and Diodes... Edited by N. Prywes	5-120
Aperture Antennas... Dr. Jon W. Eberle	5-82
Applications of Collector Logic... M.J. Slonaker	8-76
Applying Directional RF Wattmeters	10-114
Applying Poles and Zeros to Nonlinear Networks... Arden Thomas Moses	3-98
The Broad Aspects of EMC... Rexford Daniels	7-41
#79 Calculating Coefficient of Coupling... Max H. Applebaum	8-96
Circuit Features Zero-Level Clipping	6-152
Comparing the Backplane Wiring Techniques... Rocco Noschese	1-76
Considerations in Selecting Antennas	5-70
Control Returned to System Designer	12-54
Control System Design... Stanley M. Shinnors	5-118
Datadex Transistor Reference Book, 2nd Ed.... Messrs Kilpatrick & Dittrich	5-120
Data Transmission... Messrs. Bennett & Davey	4-145
Design for a Simple Voltage Regulator... Allan Perlin	6-162
Design Guide-Lines for Space Thermal Environments... Edward W. Jones	4-82
Designing the RFI Shielded Package	1-80
Designing Varactor-Tuned Circuits... George Strickholm	8-72
Design Technique for Wideband Microwave Links... J.E. Cole	11-58
Digital Integrated Circuits and Their Limiting Factors	9-70
Diode Matrix Allows Custom Designing at No Extra Cost	5-135
Electromagnetic Field Theory... Robert D. Stuart	12-118
Electromechanical Control Systems and Devices... Eugene B. Canfield	10-123
Elementary Circuit Properties of Transistors... Messrs. Searle, Boothroyd, Angelo, Jr., Gray & Pederson	5-120
Elementary Electrical Network Theory... D.G. Tucker	5-120
EMC Today	7-1
Front and Back P-C Layouts on Single Sheet	1-79
Fundamentals of Radio... Murray P. Tosenthal	9-137
Fundamentals of Relay Circuit Design... Alan R. Knoop	5-120
Handbook of Electron Tube and Vacuum Techniques... Fred Rosebury	5-119
How to Specify High Voltage Silicon Diode Stacks... Neville Mapham	2-74
How to Take Color Photomicrographs of Electronic Devices... Stephen Slenker	6-47
Improved Circuits for Testing SCR's... H.R. Camenzind	6-93
Information, Computers, and System Design... Messrs. Wilson & Wilson	12-118

<u>DESIGN Cont'd)</u>	<u>Month & Page No.</u>
Integrated Circuits: Design Principles and Fabrication	6-134
Integrated Thin-Film Network, soon	1-87
Introduction to Microwave Theory and Measurement... A.L. Lance	5-120
Introduction to Semiconductor Devices... M.J. Morant	4-145
Laminates for Multi-Layer Printed Circuit Boards... Dr. Norman A. Skow	6-54
Late Developments in Capacitor Design... Rudolf F. Graf	6-70
Linear Electric Circuits... Wallace L. Cassell	5-120
Log-Periodic Antennas... Dr. R. Mittra & Dr. J.D. Dyson	5-88
Long-Wire Antennas... Edmund A. Laport	5-79
Looking at Integrated Circuit Costs and Failures... Robert A. Bernay	12-76
Manual of Electromechanical Devices: Component Types, Characteristics, Design Applications... Douglas C. Greenwood	5-119
Materials for Packaging Microelectronic Devices... David Nixen	1-66
Mating the Thin Film and Semiconductor Technologies... Max J. Schuller	4-62
Measuring DC Relay Coil Transients... Robert D. Goldblum	4-68
Memory Devices for Modern Computer Memories... Andrew C. Knowles	12-70
Micropower Logic Circuits... John C. Sturman	10-123
Multidimensional Gaussian Distributions... Kenneth S. Miller	5-120
New Developments in EMC... Messrs. Senn & Hill	7-44
New Developments in Luneberg Lenses... R.L. Horst	5-87
New Process Cuts Printed Circuit Costs	2-50
#80 Nomograph for the Parabolic Surface Area... Dr. Robert L. Peters	9-151
Optimizing the Performance of Silicon Reference Elements... Clarence L. Wallace	3-95
#76 Parallel Tuned Circuit Calculations... Paul L. Conant, Sr.	2-83
Physical Networks... Richard S. Sanford	10-123
Potentiometer Linearity Considerations... Robert W. Kordatzky	10-95
Practical Design of All-Pass Networks... Anatol I. Zverev	2-77
Probability and Information Theory with Applications to Radar, 2nd Ed. ... P.M. Woodward	5-120
Probability and its Engineering Uses, 2nd Ed. ... Thornton C. Fry	10-123
Radio and Television Receiver Circuitry and Operation, Revised Edition... A.A. Chirardi & J.E. Dines	5-120
Radio Spectrum Utilization	4-144
Rectifier Circuits: Theory and Design... Johannes Schaefer	10-123
Reliability Through Redundancy... Norbert Seiden	7-65
Report on the Transistor Industry... Jack Haenichen	9-75
RFI Leaks Eliminated	7-50
Selected Papers and Mathematical Trends in Control Theory... Messrs Bellman & Kalaba	5-120
Selecting Epoxies for High-Z Circuits... Marvin E. Lyles	1-85
Servomechanism Fundamentals and Experiments	5-120
Shift Register Design Using Tunnel Diodes... Dieter R. Lohrmann	2-81
Single Sideband Handbook... William P. Hanneberry	5-119
Solid State Relay for Data Communication... ZVI Mishory	4-80
State-of-the Art Report on Electrical Energy Sources... Paul Rappaport	2-36
Suppressing Relay Coil Transients... John S. Jordan	4-73
Switching Theory, Vol. 1: Combinational Circuits... Raymond E. Miller	9-137
The Electronic Correlator... Anthony W. Stoll	8-79
The Nature of Induction Machines ... Philip L. Alger	10-123
Theory of Indirect Speed Control... M. Nechleba	9-137
The Status of Monolithic and Thin Film Circuits... J.W. Lathrop	6-38
The Transistor-Basic Theory and Application... Joachim Dosse	6-134
The Navy's Approach to Telemetry... T. Burr Jackson	3-79
Thin-Film Hybrid Approach to Integrated Circuits... Ralph Saunders	6-34
#78 Time Constant and Rise Time Calculations... Max H. Applebaum	6-164
Understanding Plasma Diodes and Amplifiers... L. Zelby	11-64
Using Field Effect Transistors for Digital Circuits... Harold Y. Wong	5-95
Using SCR's in Power Control Systems... W.H. Pollard III	10-86
Voltage Controlled Oscillator	12-66
What Electronic Engineers Should Know About Plasma... Leon W. Zelby	3-90

<u>EDITORIAL</u>	<u>Month & Page No.</u>
Color TV's Exciting Implications	8-1
Electronic Engineering Profile - 1965	3-1
Electronic Sciences Spur Graphic Arts	6-1
EMC Today	7-1
Expanding Microwave Markets	11-1
Fuel Cells--Our New Power	10-1
Growing Pains in Integrated Circuits	4-1
Let's Not Repeat Past Mistakes!	12-1
New Engineering Horizons	5-1
Sound Growth for 1965!	1-1
The Problem of Keeping Abreast	9-1
Why So Slow With Direct Energy Conversion?	2-1
 <u>GENERAL</u>	
An Exploratory Study of the Structure and Dynamics of the R&D Industry ... Messrs. Shapero, Howell & Tombaugh	6-134
Aid to Blind	1-118
A History of the General Radio Company... Arthur E. Thiessen	9-137
A Survey of Optical Character Recognition... Don Stevens	12-62
Basic Considerations in Time-Sharing... Kenneth O. Fisketjohm	12-82
Biomedical Electronics Equipment... S. Zimmerman	9-137
Color TV's Exciting Implications	8-1
Electronic Engineering Profile--1965	9-147
Electronic Sciences Spur Graphic Arts	6-1
Fuel Cells--Our New Power	10-1
Handbook of Electron Tube and Vacuum Techniques... Fred Rosebury	5-119
High-Resolution Pickup Tube	10-116
How EIA Faces The Challenge of Change... Dr. Harper North	6-138
How to Avoid Engineering Obsolescence... Elmer T. Ebersol	10-132
How to Take Color Photomicrographs of Electronic Devices... Stephen Slenker	6-47
Legal Protection for Computer Software... Edward C. Gonda	12-110
Lightweight Image Orthicon...	3-106
Listen to Leaders in Science... Edited by Messrs. Love & Childers	5-119
Mandl's Television Servicing, 3rd Ed.- Newly Revised... Matthew Mandl	5-119
Microwave Tube Characteristics Tabulation, 14th Ed.	11-125
Modern Science and Technology... Robert Colborn	11-125
More Computing Power Per Dollar... J. Burt Totaro	12-58
Needed: Better Technical Papers... Roger M. D'Aprix	4-120
New Engineering Horizons	5-1
Practical PERT... B.J. Hansen	4-145
Probe Aids Cryosurgery	3-150
1965 Review and Forecast for the Electronic Industries... Messrs. Bramlett & Shaud	1.26
Semantic Mathematics: An Introduction to the Concept of Calculating Notations... Morris Lewis Groder	9-137
Solid-State Circuits Conference to Feature Integrated Circuits	2-107
Space-Age Acronyms: Abbreviations and Designations... Reta C. Moser	4-144
Space Probes and Planetary Exploration... William Corliss	9-137
Technical Writer's Editor's Stylebook... Rufus P. Turner	10-123
Writing Persuasive Proposals... Messrs. Wadkins & King	2-112
 <u>INSTRUMENTS, MEASUREMENTS & TEST METHODS</u>	
ABC's of Electronic Test Equipment... Donald A. Smith	6-115
A Close Look at Measurement Standards... Elmer T. Ebersol	6-88
A Curve Tracer for Field-Effect Transistors	9-130

INSTRUMENTS, MEASUREMENTS & TEST METHODS (Cont'd)

	<u>Month & Page No.</u>
A Microwave Beamfield Plotter... Harris Klapper	1-104
ASTM Standards, Part 29: Electrical Insulating Materials	11-125
Automotive Electronics Test Equipment... Allan Lytel	6-115
Analysis and Synthesis of Linear Time-Variable Systems	5-119
Applying Directional RF Wattmeters	10-114
Audio Wave Analyzer	7-113
Automatic Interference and Attenuation Measurements	6-151
Automatic Network Testing System	6-80
Automatic Trace Seeker	9-32
Basic Electronic Test Instruments... Rufus P. Turner	6-113
Checking the Quality of Integrated Circuits... R.W. Booher	3-107
Checkout for Apollo Instruments	6-79
Discharge Detection in High Voltage Equipment... Dr. F.H. Kreuger	9-137
Electronic Instrumentation... Sol D. Prensky	6-114
Electromagnetic Compatibility Measurements... H.M. Sachs	7-106
Electronic Instruments... Edited by Messrs. Greenwood, Jr., Holdam & Macrae	6-115
Electronic Measurements... Messrs. Terman & Pettit	6-114
Electronic Measuring Instruments... Harold E. Soisson	6-114
Electronic Precision Measurement Techniques and Experiments	6-114
Electron Microscope Uses Scanning Technique	8-133
Electronics and Instrumentation... Robert T. Tamey	6-113
Electronic Tests and Measurements... Robert G. Middleton	6-115
Electronic Test Instrument Handbook... Joseph A. Risse	6-115
Electronic Time Measurements... Edited by Messrs. Chance, Hulsizer, MacNichol & Williams	6-115
Evaluating D.C. Testers for Integrated Circuits... Messrs. Booher, Boscia & Petruska	7-58
High Speed IC Tester	9-138
Improved Circuits for Testing SCR's... H.R. Camenzind	6-93
Improving Meter Accuracy... Wilbert H. Cook	3-101
Industrial Electronics Measurement... Edited by Alexander Schure	6-113
Integrated Circuit Holder Eliminates Broken Leads...	4-106
Laboratory Accuracy in a Portable Dual-Trace Oscilloscope	2-98
Low-Level High-Frequency R-F Voltage Standards... Wallace F. White	6-96
Making Meaningful Measurements, Part 1... Messrs. Silverman & Suntag	2-90
Making Meaningful Measurements, Part 2... Messrs. Silverman & Suntag	3-124
Measuring DC Relay Coil Transients... Robert D. Goldblum	4-68
Measuring Frequency Deviation... R.H. Zimmerman	5-100
Measurement Engineering, Vol. 1: Basic Principles... Peter K. Stein	4-145
Measurements by Laser	2-97
Microwave Measurements Manual... Messrs. Kellejian & Jones	6-114
Modern Oscilloscopes and Their Uses... Jacob H. Ruiter, Jr.	6-114
New Developments in EMC... Messrs. Senn & Hill	7-44
New Scale Established for Low Temperatures	8-132
Nondestructive High Potential Testing... Harold N. Miller	4-145
Notes on the Measurement of SNR... I. Dlugatch	12-100
Oscilloscope Sampling Techniques... George J. Frye	6-108
Photoconductive Detectors for Infrared Measurements... G.F. Giggey	11-118
Portable Squib Tester	4-72
Practical Oscilloscope Handbook... Rufus P. Turner	6-113
Principles of Electronic Instruments... Gordon R. Partridge	6-114
Principles of Electronic Instrumentation... Messrs. Lynch & Truxal	6-114
Programmable Checkout System	4-110
Quality Control on Wheels	12-43
Selecting the Right Meter... R.F. Estoppey	6-102
Test Chamber Speeds IC Testing	7-112

INSTRUMENTS, MEASUREMENTS & TEST METHODS (Cont'd)

Month &
Page No.

Test Equipment Maintenance Handbook... Robert G. Middleton	6-115
Testing Silicon Rectifiers... David L. Mohn	8-110
The Broad Aspects of Testing Integrated Circuits... Everett Hanlon	10-82
The Electronic Correlator... Anthony W. Stoll	8-79
The Probable Reliability of a Measurement... Warren D. Moon	4-102
Thermal Probe Speeds Environmental Testing... Rene Goldberger	5-115
Tester Handles all IC	12-41
Variable Load Tests Supplies	12-80

MATERIALS

ASTM Standards, Part 29: Electrical Insulating Materials	11-125
Choosing the Right Solder Alloy... H.H. Manko	3-102
Commercial Profits from Defense--Space Technology--An Action Guide... Edited by W.R. Purcell, Jr.	9-137
Designing the RFI Shielded Package	1-80
Don't Overlook the Competition... J.E.Boehm	8-127
Electronic Ceramics... Dr. John H. Koenig	10-123
Growing Crystals for Electronic Devices	8-81
Laminates for Multi-Layer Printed Circuit Boards... Dr. Norman A. Skow	6-54
Materials for Packaging Microelectronic Devices... David Nixen	1-66
Selecting Epoxies for High-Z Circuits	1-85
State-of-the-Art Report on Electrical Energy Sources... Paul Rappaport	2-36
The Structure of Properties of Materials, Vol. 2 - Thermodynamics of Structure... Messrs. Prophy, Rose and Wulff	4-145

MARKETS

An Introduction to Patents for Inventors and Engineers ... C.D. Tuska	5-119
Expanding Microwave Markets	11-1
Let's Not Repeat Past Mistakes!	12-1
Market Microwave Components Turns Upward... S. Feldman	11-132
New Market Looms in Electronic Toys... Elmer T. Ebersol	1-124
1965 Review and Forecast for the Electronic Industries... Messrs. Bramlett & Shaud	1-26
Sound Growth for 1965!	1-1

MICROWAVE

A Microwave Beamfield Plotter... Harris Klapper	1-104
Aperture Antennas... Dr. Jon W. Eberle	5-82
Automatic Interference and Attenuation Measurements	6-151
Broadband Signal Sampler Has Adjustable Capacity	5-136
Cryogenically-Cooled Receiver	8-134
Design Technique for Wideband Microwave Links... J.E. Cole	11-58
Expanding Microwave Markets	11-1
Introduction to Microwave Theory and Measurement... A.L. Lance	5-120
Market Microwave Components Turns Upward... S. Feldman	11-132
Microminiature UHF Transceiver	4-109
Microwave Cable May Replace Waveguide	4-108
Microwave Measurements Manual... Messrs. Kellejian & Jones	6-114
Microwaves--Past, Present & Future	11-72
Microwave Tube Characteristics Networks and Telephone Traffic... V.E. Benes	11-125
Microwave Tube Characteristics Tabulation, 14th Ed.	11-125
New Developments in Luneberg Lenses... R.L. Horst	5-87
Probability and Information Theory with Applications to Radar, 2nd Ed. ... P.M. Woodward	5-120

MICROWAVE

Month &
Page No.

Satellite Data Compressor	2-66
Selected Papers on Semiconductor Microwave Electronics... Edited by Messrs Levine & Kurzok	4-145
1965 Survey of Microwave Semiconductors	11-77
The Navy's Approach to Telemetering... T. Burr Jackson	3-79
The Uses of Ferrites at Microwaves... L. Thourel	4-145

PRODUCTION METHOD

Cold-Tip Soldering	2-68
Comparing the Backplane Wiring Techniques... Rocco Noschese	1-76
Front and Back P-C Layouts on Single Sheet	1-79
Growing Crystals for Electronic Devices	8-81
Handbook of Electron Beam Welding... Messrs. Bakish & White	5-120
Highly Versatile Sputtering Unit	7-69
How to Take Color Photomicrographs of Electronic Devices... Stephen Slenker	6-47
Integrated Circuits: Design Principles and Fabrication	6-134
Laminates for Multi-Layer Printed Circuit Boards... Dr. Norman A. Skow	6-54
Multi-Use Console Welder	6-80
Mating the Thin-Film and Semiconductor Technologies... Max J. Schuller	4-62
New Process Cuts Printed Circuit Costs	2-50
New Welder Handles Tape Cable	1-84
Report on the Transistor Industry... Jack Haenichen	9-75
Semiconductor Diodes -- Past, Present, and Future... Norman J. Egli	9-90
Silicon Slicer	1-61
The Impact of Integrated Circuits on Industry Roles... Herbert M. Isaacson	4-53
Twenty Flat Packs in 1.4 Cubic Inches	6-79

PROFESSIONAL OPPORTUNITIES

An Introduction to Patents for Inventors and Engineers... C.D. Tuska	5-119
Electrical Engineering... Julius I. Franklin	5-118
Electronic Engineering Profile - 1965	3-1
Electronic Engineering Profile - 1965	9-147
How to Avoid Engineering Obsolescence... Elmer T. Ebersol	10-132
Managerial and Engineering Economy: Economic Decision-Making	5-120
Needed: Better Technical Papers... Roger M. D'Aprix	4-120
The Problem of Keeping Abreast	9-1

SEMICONDUCTORS

A Curve Tracer for Field-Effect Transistors	9-130
Amplifier and Memory Devices: With Films and Diodes... Edited by N. Prywes	5-120
Application Guide for RCA Memory Products (MP-315)	12-118
A Semiconductor Servo for DC Control... Baruch Berman	4-76
Control Returned to System Designer	12-54
Datadex Transistor Reference Book, 2nd Ed. ... Messrs. Kilpatrick & Dittrich	5-120
Diode Matrix Allows Custom Designing At no Extra Cost	5-135
Elementary Circuit Properties of Transistors... Messrs. Searle, Boothroyd, Angelo, Jr., Gray & Pederson	5-120
Ferrite Sheet Memory Modules	2-68
Fifty-Watt R-F Transistor	7-114
How to Specify High Voltage Silicon Diode Stacks... Neville Mapham	2-74
Improved Circuits for Testing SCR's... H.R. Camenzind	6-93
Introduction to Semiconductor Devices... M.J. Morant	4-145
Low Cost Mass Core Memory	5-130

SEMICONDUCTORS (Cont'd)

Month &
Page No.

Low-Power Computer Memory	9-81
Mating the Thin Film and Semiconductor Technologies... Max J. Schuller	4-62
Microwave Scanning Antennas: Vol. 1, Apertures... R. C. Hansen	9-137
Optimizing the Performance of Silicon Reference Elements... Clarence L. Wallace	3-95
Photoconductive Detectors for Infrared Measurements... G.F. Wiggey	11-118
Rectifier Circuits: Theory and Design... Johannes Schaefer	10-123
Report on the Transistor Industry... Jack Haenichen	9-75
Selected Papers on Semiconductor Microwave Electronics... Edited by Messrs. Levine & Kurzok	4-145
Semiconductor Diodes - Past, Present, and Future... Norman J. Egli	9-90
Semiconductor Junctions and Devices... W.B. Buford, III & H.G. Verner	11-125
Shift Register Design Using Tunnel Diodes... Dieter R. Lohrmann	2-81
Single-Stack Core Memory	8-133
1965 Survey of Commercial Semiconductor Photosensitive Devices, Part 1: Photoconductors... R.D. Kaus	7-73
1965 Survey of Commercial Semiconductor Photosensitive Devices - Part 2: Photovoltaic Diodes... R.D. Kaus	8-83
1965 Survey of Commercial Semiconductor Photosensitive Devices - Part 3: Phototransistors, PNP Light-Activated Devices and Manufacturers ... R.D. Kaus	9-82
1965 Survey of Microwave Semiconductors	11-77
Testing Silicon Rectifiers... David L. Mohn	8-110
The Evolution of Semiconductor Electronics... Messrs. Kawakami & Takahashi	2-72
The Status of Monolithic and Thin Film Circuits... J.W. Lathrop	6-38
The Transistor-Basic Theory and Application... Joachim Dosse	6-134
The Uses of Ferrites at Microwaves... L. Thourel	4-145
Thin-Film Hybrid Approach to Integrated Circuits... Ralph Saunders	6-34
Understanding Plasma Diodes and Amplifiers... L. Zelby	11-64
Using SCR's in Power Control Systems... W.H. Pollard III	10-86

SYSTEMS

AC Carrier Control Systems... Keith A. Ivey	4-144
Analysis and Synthesis of Linear Time-Variable Systems	5-119
Automatic Network Testing System	6-80
Checking the Quality of Integrated Circuits... R.W. Booher	3-107
Checkout for Apollo Instruments	6-79
Close Support for Troops	11-138
Comparing the Backplane Wiring Techniques... Rocco Noschese	1-76
Control System Design... Stanley M. Shinnars	5-118
Data Transmission... Messrs. Bennett & Davey	4-145
Electromechanical Control Systems and Devices... Eugene B. Canfield	10-123
Electronics Systems for Convenience, Safety, and Enjoyment... Edward A. Altshuler	9-137
Engineering Systems Analysis... A.G.J. MacFarlane	5-118
Evaluating D.C. Testers for Integrated Circuits... Messrs. Booher, Boscia & Petruska	7-58
Listen to Leaders in Science... Edited by Messrs. Love & Childers	5-119
Low-Cost, Time-Sharing Computer	12-54
Mandl's Television Servicing, 3rd Ed. - Newly Revised... Matthew Mandl	5-119
Microwave Tube Characteristics Networks and Telephone Traffic... V.E. Benes	11-125
Photos from Mars	9-140
Project Estimating by Engineering Methods... Paul F. Gallagher	5-120
The Navy's Approach to Telemetry... T. Burr Jackson	3-79
Theory of Sampled-Data Control Systems... David P. Lindorff	5-119
The Probable Reliability of a Measurement... Warren D. Moon	4-102
Visual Morse Code Reader	9-143

WHAT'S NEW

CIRCUITS

Automated Plant and Advanced Circuitry Shown	12-37
Decentralized Voltage Regulation	4-108
Digital Integrated Circuits	2-66
Front and Back P-C Layouts on Single Sheet	1-79
Plug-In Flat Packs	8-134
Twenty Flat Packs in 1.4 Cubic Inches	6-79
Voltage Controlled Oscillator	12-66

COMMUNICATION EQUIPMENT

Cryogenically-Cooled Receiver	8-134
Microminiature UHF Transceiver	4-109
Satellite Data Compressor	2-66
Visual Morse Code Reader	9-142

COMPONENTS

Coaxial Connector for Printed Circuit	5-74
Control Returned to System Designer	12-54
Fifty-Watt R-F Transistor	7-114
Frequency Multiplication with Power Gain	12-41
High-Resolution Pickup Tube	10-116
Integrated Circuit Holder Eliminates Broken Leads	4-106
Lightweight Image Orthicon	3-106
Microwave Cable May Replace Waveguide	4-108
New Coaxial Switch Concept	11-35
Non-Electromagnetic Antenna Guy Lines	5-81
RFI Leaks Eliminated	7-50
Self-Renewing Contacts on New Mercury Relay	11-35

COMPUTERS & PERIPHERAL EQUIPMENT

Carrier Device Uses Air Floated Tape	1-62
Computer Apprehends Offenders	10-118
Computer Sets Type	9-32
Diode Matrix Allows Custom Designing at No Extra Cost	5-135
Ferrite Sheet Memory Modules	2-68
IBM Doubles 360 Recording Speed	10-120
Low Cost Mass Core Memory	5-130
Low-Cost, Time-Sharing Computer	12-54
Low-Power Computer Memory	9-81
New Computer Series Features Integrated Circuits	1-112
Single-Stack Core Memory	8-133
Thin-Film/IC Computer	8-132

GENERAL

Aid to Blind	1-118
Close Support for Troops	11-138
Fast Printout for Film Documents	1-61
Pads Keep Wire Clippings from Flying	6-80
Photos from Mars	9-140

GENERAL (Cont'd)

Month &
Page No.

Probe Aids Cryosurgery	3-150
Quality Control on Wheels	12-43
Superconducting Magnet Operates Unattended	5-130
TV From an LP	7-52
Variable Load Tests Supplies	12-80

PRODUCTION MACHINERY

Cold-Tip Soldering	2-68
Highly Versatile Sputtering Unit	7-69
Multi-Use Console Welder	6-80
New Process Cuts Printed Circuit Costs	2-50
New Welder Handles Tape Cable	1-84
Silicon Slicer	1-61

TEST AND MEASUREMENT

Audio "ave Analyzer	7-113
Automatic Interference and Attenuation Measurements	6-151
Automatic Network Testing System	6-80
Automatic Trace Seeker	9-32
Broadband Signal Sampler Has Adjustable Capacity	5-136
Checkout for Apollo Instruments	6-79
Electron Microscope Uses Scanning Technique	8-133
High Speed IC Tester	9-138
Integrated Thin-Film Network, soon	1-87
Measurements by Laser	2-97
New Scale Established for Low Temperatures	8-132
Portable Squib Tester	4-72
Programmable Checkout System	4-110
Test Chamber Speeds IC Testing	7-112
Tester Handles All IC	12-41

AUTHORS' INDEX

Month &
Page No.

Alger, Philip--The Nature of Induction Machines	10-123
Applebaum, Max H.--#79 Calculating Coefficient of Coupling	8-96
Bennett, William R.--Data Transmission	4-145
Berman, Baruch--A Semiconductor Servo for DC Control	4-76
Benes, V.E.--Microwave Tube Characteristics Networks and Telephone Traffic	11-125
Bernay, Robert A.--Looking at Integrated Circuit Costs and Failures	12-76
Boehm--Don't Overlook the Competition	8-127
Booher, R.W.--Checking the Quality of Integrated Circuits	3-107
Booher, R.W.--Evaluating D.C. Testers for Integrated Circuits	7-58
Boscia, S.--Evaluating D.C. Testers for Integrated Circuits	7-58
Brown, Fon R.--A Simple Approach to Operational Amplifier Design	7-70
Bramlett, Robert J.--1965 Review and Forecast for the Electronic Industries	1-26
Buford, III, W.B.--Semiconductor Junctions and Devices	11-125
Cassell, Wallace L.--Linear Electric Circuits	5-120
Camenzind, H.R.--Improved Circuits for Testing SCR's	6-93
Colborn, Robert--Modern Science and Technology	11-125
Cole, J.E.--Design Technique for Wideband Microwave Links	11-58
Conant, Sr., Paul L.--#76 Parallel Tuned Circuit Calculations	2-83
Cook, Wilburt H.--Improving Meter Accuracy	3-101
Corliss, William--Space Probes and Planetary Exploration	9-137
Daniels, Rexford--The Broad Aspects of EMC	7-41
D'Aprix, Roger M.--Needed: Better Technical Papers	4-120
Davey, James R.--Data Transmission	4-145
Dlugatch, I.--Notes on the Measurement of SNR	12-100
Dyson, Dr. J.D.--Log-Periodic Antennas	5-88
Eberle, Dr. Jon W.--Aperture Antennas	5-82
Ebersol, Elmer T.--New Market Looms in Electronic Toys	1-124
Ebersol, Elmer T.--A Close Look at Measurement Standards	6-88
Ebersol, Elmer T.--How to Avoid Engineering Obsolescence	10-132
Egli, Norman J.--Semiconductor Diodes - Past, Present, and Future	9-90
Estoppey, R.F.--Selecting the Right Meter	6-102
Feldman, S.--Market Microwave Components Turns Upward	11-132
Fisketjohn, Kenneth O.--Basic Considerations in Time-Sharing	12-82
Fowler, William L.--A Look at Linear Integrated Circuits	9-64
Franklin, Julius I.--Electrical Engineering	5-118
Fry, Thornton C.--Probability and its Engineering Uses, 2nd Ed.	10-123
Frye, George J.--Oscilloscope Sampling Techniques	6-108
Giggey, G.F.--Photoconductive Detectors for Infrared Measurements	11-118
Goldberger, Rene--Thermal Probe Speeds Environmental Testing	5-115
Goldblum, Robert D.--Measurement DC Relay Coil Transients	4-68
Gonda, Edward C.--Legal Protection for Computer Software	12-110
Graf, Rudolf F.--Late Developments in Capacitor Design	6-70
Greenwood, Douglas C.--Manual of Electromechanical Devices: Component Types, Characteristics, Design Applications	5-119
Groder, Morris Lewis--Semantic Mathematics: An Introduction to the Concept of Calculating Notation	9-137
Haenichen, Jack--Report on the Transistor Industry	9-75
Hanlon, Everett--The Broad Aspects of Testing Integrated Circuits	10-82
Hill, James S.--New Developments in EMC	7-44
Horst, R.L.--New Developments in Luneberg Lenses	5-87
Hyman, Charles J.--German-English and English-German Electronics Dictionary	12-118
Isaacson, Herbert M.--The Impact of Integrated Circuits on Industry Roles	4-53
Ivey, Keith A.--AC Carrier Control Systems	4-144
Jackson, T. Burr--The Navy's Approach to Telemetering	3-79

Jones, Edward W.--Design Guide-Lines for Space Thermal Environments	4-82
Jordan, John S.--Suppressing Relay Coil Transients	4-73
Kaus, R.D.--1965 Survey of Commercial Semiconductor Photosensitive Devices, Part 1: Photoconductors	7-73
Kaus, R.D.--1965 Survey of Commercial Semiconductor Photosensitive Devices, Part 2: Photovoltaic Diodes	8-83
Kaus, R.D.--1965 Survey of Commercial Semiconductor Photosensitive Devices, Part 3: Phototransistors, PNP Light-Activated Devices, and Manufacturers	9-82
Kawakami, Masamitsu--The Evolution of Semiconductor Electronics	2-72
King, Robert E.--Writing Persuasive Proposals	2-112
Klapper, Harris--A Microwave Beamfield Plotter	1-104
Knowles, Andrew C.--Memory Devices for Modern Computer Memories	12-70
Koenig, Dr. John H.--Electronic Ceramics	10-123
Koenig, W.A.--A Practical Component Packaging System	11-46
Kordatzky, Robert W.--Potentiometer Linearity Considerations	10-95
Lathrop, J.W.--The Status of Monolithic and Thin Film Circuits	6-38
Lee, Robert C.K.--Optimal Estimation, Identification, and Control	4-145
Lohrmann, Dieter R.--Shift Register Design Using Tunnel Diodes	2-81
Lyles, Marvin E.--Selecting Epoxies for High-Z Circuits	1-85
MacFarlane, A.G.J.--Engineering Systems Analysis	5-118
Manko, H.H.--Choosing the Right Solder Alloy	3-102
Mapham, Neville--How to Specify High Voltage Silicon Diode Stacks	2-74
Miller, Raymond E.--Switching Theory, Vol. 1: Combinational Circuits	9-137
Mishory, ZVI--Solid State Relay for Data Communication	4-80
Mittra, Dr. R.--Log-Periodic Antennas	5-88
Mohn, David L.--Testing Silicon Rectifiers	8-110
Moon, Warren D.--The Probable Reliability of a Measurement	4-102
Moser, Reta C.--Space-Age Acronyms: Abbreviations and Designations	4-144
Moses, Arden Thomas--Applying Poles and Zeros to Nonlinear Networks	3-98
Nixen, David--Materials for Packaging Microelectronic Devices	1-66
North, Dr. Harper--How EIA Faces the Challenge of Change	6-138
Noschese, Rocco--Comparing the Backplane Wiring Techniques	1-76
Peters, Dr. Robert L.--#80 Nomograph for the Parabolic Surface Area	9-151
Perlin, Allan--Design for a Simple Voltage Regulator	6-162
Petruska, J.--Evaluating D.C. Testers for Integrated Circuits	7-58
Pollard III, W.H.--Using SC ² 's in Power Control Systems	10-86
Rappaport, Paul--State-of-the-Art Report on Electrical Energy Sources	2-36
Sachs, H.M.--Electromagnetic Compatibility Measurements	7-106
Sanford, Richard S.--Physical Networks	10-123
Saunders, Ralph--Thin-Film Hybrid Approach to Integrated Circuits	6-34
Savage, Bruce R.--A Simple Approach to Operational Amplifier Design	7-70
Schaefer, Johannes--Rectifier Circuits: Theory and Design	10-123
Schuller, Max J.--Mating the Thin Film and Semiconductor Technologies	4-62
Russell, S.--A Miniature R-F Switch for Space Applications	9-89
Schwanke, V.--A Miniature R-F Switch for Space Applications	9-89
Seiden, Norbert--Reliability Through Redundancy	7-65
Senn, James C.--New Developments in EMC	7-44
Shaud, Jr., Edward G.--1965 Review and Forecast for the Electronic Industries	1-26
Shinners, Stanley M.--Control System Design	5-118
Silverman, S.--Making Meaningful Measurements, Part 1	2-90
Silverman, S.--Making Meaningful Measurements, Part 2	3-124
Skow, Dr. Norman A.--Laminates for Multi-Layer Printed Circuits Boards	6-54
How to Take Color Photomicrographs of Electronic Devices--Stephen Slenker	6-47
Slonaker, M.J.--Applications of Collector Logic	8-76
Stuart, Robert D.--Electromagnetic Field Theory	12-118
Stevens, Don--A Survey of Optical Character Recognition	12-62

Stoll, Anthony W.--The Electronic Correlator	8-79
Strickholm, George--Designing Varactor-Tuned Circuits	8-72
Suntag, C.--Making Meaningful Measurements, Part 1	2-90
Suntag, C.--Making Meaningful Measurements, Part 2	3-124
Takashi, Kiyoshi--The Evolution of Semiconductor Electronics	2-72
Thiessen, Arthur E.--A History of the General Radio Company	9-137
Thourel, L.--The Uses of Ferrites at Microwaves	4-115
Verner, H.G.--Semiconductor Junctions and Devices	11-125
Totaro, J. Burt--More Computing Power per Dollar	12-58
Wadkins, Oscar L.--Writing Persuasive Proposals	2-112
Wallace, Clarence L.--Optimizing the Performance of Silicon Reference Elements	3-95
Ward, H.T.--A Miniature R-F Switch for Space Applications	9-89
White, Wallace F.--Low-Level High-Frequency R-F Voltage Standards	6-96
Wilson, I.G.--Information, Computers, and System Design	12-118
Wilson, M.E.--Information, Computers, and System Design	12-118
Wong, Harold Y.--Using Field Effect Transistors for Digital Circuits	5-95
Zimmerman, R.H.--Measuring Frequency Deviation	5-100
Zimmerman, S.--Biomedical Electronics Equipment	9-137
Zverev, Anatol I.--Practical Design of All-Pass Networks	2-77

