

RCA TECHNICAL PAPERS

(1952)

INDEX

Volume III(b)

RCA TECHNICAL PAPERS

(1952)

INDEX

Volume III(b)

Published by

RCA REVIEW

RADIO CORPORATION OF AMERICA

RCA LABORATORIES DIVISION

Princeton

New Jersey

Copyright, 1953, by
Radio Corporation of America,
RCA Laboratories Division

Printed in U. S. A.

RCA TECHNICAL PAPERS

(1952)

INDEX

Volume III(b)

RCA REVIEW has listed in this Index substantially all published English-language technical papers on subjects in the radio, electronics and related fields, the author or a coauthor of which was associated with the Radio Corporation of America (including its various divisions and subsidiary companies) at the time of the paper's preparation or at the time of the work described in the paper was performed.

The chronological index is followed by a section arranged alphabetically by authors and a subject classification section. The alphabetical listing of papers by titles, which appeared in previous Indexes, has been dropped.

This Index [Volume III(b)] supplements Volume I (1919-1945), Volume II (1946-1950), and Volume III(a) (1951). Volumes III(c) and III(d) will cover the years 1953 and 1954 respectively. In 1956 these will be consolidated and published as Volume III (1951-1955).

* * *

Any requests for copies of papers listed herein should be addressed to the publication to which credited. However, *RCA Industry Service Laboratory Bulletins* are not published and are issued only as a service to licensees of the Radio Corporation of America.

* * *

Report all corrections or additions to RCA Review, Radio Corporation of America, RCA Laboratories Division, Princeton, New Jersey.

The Manager, RCA Review

RCA TECHNICAL PAPERS

(1952)

INDEX, Volume III(b)

CONTENTS

ABBREVIATIONS	v
CHRONOLOGICAL INDEX	1
AUTHOR INDEX	10
SUBJECT INDEX	13
Acoustics—Audio-Frequency Systems	13
Antennas—Transmission Lines	13
Circuits—Components	13
Communications	13
Editorial	13
Electron Optics	13
Electron Tubes	14
Mathematics	14
Measurements—Tests—Servicing	14
Motion Pictures	14
Optics	14
Recording—Reproduction	14
Special Equipment and Devices	14
Television	15
Transistors—Semiconductors	15
Transmitters	15

ABBREVIATIONS

(Note—Titles of periodicals not listed below,
as well as book titles, are not abbreviated.)

<i>Audio Eng.</i>	AUDIO ENGINEERING
<i>Elec. Eng.</i>	ELECTRICAL ENGINEERING
<i>FM and Tele.</i>	FM AND TELEVISION
<i>Jour. Amer. Chem. Soc.</i>	JOURNAL OF THE AMERICAN CHEMICAL SOCIETY
<i>Jour. Appl. Phys.</i>	JOURNAL OF APPLIED PHYSICS
<i>Jour. Chem. Phys.</i>	JOURNAL OF CHEMICAL PHYSICS
<i>Jour. Electro-Chem. Soc.</i>	JOURNAL OF THE ELECTRO-CHEMICAL SOCIETY
<i>Jour. Frank. Inst.</i>	JOURNAL OF THE FRANKLIN INSTITUTE
<i>Jour. Opt. Soc. Amer.</i>	JOURNAL OF THE OPTICAL SOCIETY OF AMERICA
<i>Jour. S. M. P. T. E.</i>	JOURNAL OF THE SOCIETY OF MOTION PICTURE AND TELEVISION ENGINEERS
<i>Phys. Rev.</i>	PHYSICAL REVIEW
<i>Proc. I.R.E.</i>	PROCEEDINGS OF THE INSTITUTE OF RADIO ENGINEERS
<i>Prod. Eng.</i>	PRODUCT ENGINEERING
<i>Rad. and Tele. News</i>	RADIO AND TELEVISION NEWS
<i>RCA Rad. and Tele. Serv. News.</i>	RCA RADIO AND TELEVISION SERVICE NEWS
<i>Rev. Sci. Instr.</i>	REVIEW OF SCIENTIFIC INSTRUMENTS
<i>TV Eng.</i>	TELEVISION ENGINEERING

RCA TECHNICAL PAPERS

(1952)

CHRONOLOGICAL INDEX

No.		Year
3005	"Air Weather Ahead," R. F. Guy, <i>Radio-Electronics</i> (January)	1952
3006	"AM Transmitter Design," M. H. Hutt, <i>Rad. and Tele. News</i> (January)	1952
3007	"Assembly-Line TV Studios," M. Rettinger, <i>Broadcast News</i> (January-February)	1952
3008	"An Experimental High-Transconductance Tube Using Space-Charge Deflection of the Electron Beam," J. T. Wallmark, <i>Proc. I.R.E.</i> (January)	1952
3009	"Heat-Transmitting Mirror," G. L. Dimmick and M. E. Widdop, <i>Jour. S.M.P.T.E.</i> (January)	1952
3010	"Improved Television Picture Performance," H. N. Kozanowski, <i>Broadcast News</i> (January-February)	1952
3011	"Originative and Intensifier Activators in MgO Phosphors," R. H. Bube and K. F. Stripp, <i>Jour. Chem. Phys.</i> (January) (Letter to the Editor)	1952
3012	"Pictorial Radio, Part I," C. D. Tuska, <i>Jour. Frank. Inst.</i> (January)	1952
3013	"Power-Increase Conversions," F. E. Talmage, <i>TV Eng.</i> (January)	1952
3014	"Reducing Outage at WNBT and WNBC-FM," L. A. Looney and F. C. Everett, <i>Electronics</i> (January)	1952
3015	"Standards Conversion of Television Signals," V. K. Zworykin and E. G. Ramberg, <i>Electronics</i> (January)	1952
3016	"Television in Medicine and Biology," V. K. Zworykin and L. E. Flory, <i>Elec. Eng.</i> (January)	1952
3017	"TT-25AL/20AH Conversion Equipments," F. E. Talmage, <i>Broadcast News</i> (January-February)	1952
3018	"The 'Twomobile', a 144-Mc. Transceiver," H. W. Brown, Jr., <i>Ham Tips</i> (January-February)	1952
3019	"UHF Receiving Antennas," E. O. Johnson and J. D. Callaghan, <i>Electronics</i> (January)	1952
3020	Item deleted.	
3021	"Factors Affecting the Quality of Kinerecording," P. J. Herbst, R. O. Drew, and J. M. Brumbaugh, <i>Jour. S.M.P.T.E.</i> (February)	1952
3022	"A High-Voltage Electron-Trap Rectifier," E. G. Linder, J. H. Coleman, and E. G. Apgar, <i>Proceedings of the National Electronics Conference</i> (February)	1952
3023	"Inexpensive Square-Wave Generator," G. W. Gray, <i>Electronics</i> (February)	1952
3024	"New Principle for Electronic Volume Compression," H. E. Haynes, <i>Jour. S.M.P.T.E.</i> (February)	1952
3025	"Pictorial Radio, Part II," C. D. Tuska, <i>Jour. Frank. Inst.</i> (February)	1952
3026	"Regulated 1,600-Ampere Filament Supply," A. W. Vance and C. C. Shumard, <i>Electronics</i> (February)	1952
3027	"Sweep Frequency Generator for UHF Television Band," J. A. Cornell and J. F. Sterner, <i>Tele-Tech</i> (February)	1952
3028	"Vibrating-Plate Viscometer," J. G. Woodward, <i>Electronics</i> (February)	1952

No.		Year
3029	"Frequency Control of Modulated Magnetrons by Resonant Injection System," L. L. Koros, <i>RCA Industry Service Laboratory Bulletin LB-855</i> (February 8)	1952
3030	"Design Data for Horizontal Rhombic Antennas," E. A. Laport, <i>RCA Industry Service Laboratory Bulletin LB-856</i> (February 18)	1952
3031	"A Band-Pass Mechanical Filter for 100 Kilocycles," L. L. Burns, Jr., <i>RCA Review</i> (March)	1952
3032	"Circuit Stability in Guided Missiles," R. L. Kelly, <i>Electronics</i> (March)	1952
3033	"Design and Adjustment of Kinescope Centering Magnets and Ion-Trap Magnets," <i>RCA Application Note AN-152</i> (March)	1952
3034	"Design Considerations for Minimizing Ripple and Interference Effects in Horizontal-Deflection Circuits," <i>RCA Application Note AN-151</i> (March)	1952
3035	"Design Data for Horizontal Rhombic Antennas," E. A. Laport, <i>RCA Review</i> (March)	1952
3036	"A Developmental Portable Television Pickup Station," L. E. Flory, W. S. Pike, J. E. Dilley, and J. M. Morgan, <i>RCA Review</i> (March)	1952
3037	"Efficient TV Service in the Customer's Home," W. M. Tomlin, <i>Radio-Electronics</i> (March)	1952
3038	"Ferrite Applications in Electronic Components," B. V. Vonderschmitt, M. J. Obert, and H. B. Stott, <i>Electronics</i> (March) ..	1952
3039	"Frequency Control of Modulated Magnetrons by Resonant Injection System," L. L. Koros, <i>RCA Review</i> (March)	1952
3040	"Frequency Stability for Television Offset Carrier Operation," P. J. Herbst and E. M. Washburn, <i>RCA Review</i> (March) ..	1952
3041	"Image Graduation, Graininess and Sharpness in Television and Motion Picture Systems (Part II)," O. H. Schade, <i>Jour. S.M.P.T.E.</i> (March)	1952
3042	"Image Orthicon Color Television Camera Optical System," L. T. Sachtleben, D. J. Parker, G. L. Allee, and E. Kornstein, <i>RCA Review</i> (March)	1952
3043	"A Large Area Germanium Photocell," J. I. Pantchechnikoff, <i>Rev. Sci. Instr.</i> (March) (Letter to the Editor)	1952
3044	"Master Monitor for Video Monitoring," N. P. Kellaway, <i>TV Eng.</i> (March)	1952
3045	"The NBC New York Color Television Field Test Studio," J. R. DeBaun, R. A. Monfort, and A. A. Walsh, <i>RCA Review</i> (March)	1952
3046	"A New Master Monitor," N. P. Kellaway, <i>Broadcast News</i> (March-April)	1952
3047	"A New Television Camera for Studio and Field Use," A. Reisz, <i>Broadcast News</i> (March-April)	1952
3048	"A New UHF Television Antenna, TFU-24-B," O. O. Fiet, <i>Broadcast News</i> (March-April)	1952
3049	"Performance of the Vidicon, a Small Developmental Television Camera Tube," B. H. Vine, R. B. Janes, and F. S. Veith, <i>RCA Review</i> (March)	1952
3050	"The RCA Color Television Camera Chain," J. D. Spradlin, <i>RCA Review</i> (March)	1952
3051	"The Stratford, Conn. UHF TV Tests," R. J. Hall, <i>Service</i> (March)	1952
3052	"Interactions of Remote Impurity Centers in Phosphors," H. W. Leverenz and D. O. North, <i>Phys. Rev.</i> (March 1)	1952
3053	"Adjustment Procedure for Kinescope Ion-Trap Magnets," <i>RCA Application Note AN-153</i> , RCA Tube Department, Harrison, N. J. (April)	1952
3054	"Anomalous Interference Films on Glass by Chemical Treatment," F. H. Nicoll, <i>Jour. Opt. Soc. Amer.</i> (April)	1952
3055	"Azimuth Film Calibration," M. Rettinger, <i>Audio. Eng.</i> (April)	1952

No.		Year
3056	"Ferromagnetic Spinelns Containing Lithium," R. S. Weisz, <i>Ceramic Industry</i> (April and May)	1952
3057	"A Four-Purpose Communication-Receiver Auxiliary," G. D. Hanchett, Jr. and K. G. Bucklin, <i>QST</i> (April)	1952
3058	"High-Silica Fluosilicic Acids: Specific Reactions and the Equilibrium with Silica," S. M. Thomsen, <i>Jour. Amer. Chem. Soc.</i> (April)	1952
3059	"Horizontal-Deflection-Output and High-Voltage Transformer RCA-230T1 for 18-Kilovolt Kinescope Operation," <i>RCA Application Note AN-154</i> , RCA Tube Department, Harrison, N. J. (April)	1952
3060	"The Host Crystal Luminescence of Zinc Sulfide Phosphors," R. H. Bube, <i>Jour. Chem. Phys.</i> (April)	1952
3061	A New All-Purpose Television Camera," A. Reisz, <i>Tele-Tech</i> (April)	1952
3062	"Occurrence of Ferromagnetism in Spinelns," R. S. Weisz, <i>Ceramic Age</i> (April)	1952
3063	"Optical-Magnetic Sound 16mm Projector," G. A. del Valle and F. L. Putzrath, <i>Jour. S.M.P.T.E.</i> (April)	1952
3064	"Production Testing of Multiplier Phototubes," R. W. Engstrom, R. G. Stoudenheimer, and A. M. Glover, <i>Nucleonics</i> (April)	1952
3065	"A Technical Solution of Magnetic Recording Cost Reduction," K. Singer and H. C. Ward, <i>Jour. S.M.P.T.E.</i> (April)	1952
3066	"Twin-Drum Film-Drive Filter System for Magnetic Recorder-Reproducer," C. E. Hittle, <i>Jour. S.M.P.T.E.</i> (April)	1952
3067	"Zinc-Magnesium Oxide and Zinc-Magnesium Sulfide Phosphors," A. L. Smith, <i>Jour. Electro-Chem. Soc.</i> (April)	1952
3068	"A Video Test Signal Generator," H. Borkan, J. G. Reddeck, and W. C. Morrison, <i>RCA Industry Service Laboratory Bulletin LB-859</i> (April 4)	1952
3069	"The Preparation of Single and Multiple P-N Junctions in Single Crystals of Germanium, A. R. Moore, <i>RCA Industry Service Laboratory Bulletin LB-860</i> (April 25)	1952
3070	"An Aural Monitor for Frequency Modulation," J. L. Hathaway and R. E. Lafferty, <i>Proc. I.R.E.</i> (May)	1952
3071	"A Deluxe TV-Audio Console Custom Built by RCA for NBC Studios," R. W. Byloff, <i>Broadcast News</i> (May-June)	1952
3072	"How to Handle Film in Your TV Station," W. L. Murray, <i>Broadcast News</i> (May-June)	1952
3073	"Interference from Harmonics of Sound-IF and Picture-IF Signals," J. R. Meagher, <i>RCA Rad. and Tele. Serv. News</i> (May-June)	1952
3074	"NBC Converts El Capitan for TV Theatre," <i>Broadcast News</i> (May-June)	1952
3075	"Pattern-Testing the TFU-24B UHF Antenna," E. H. Shively, <i>Broadcast News</i> (May-June)	1952
3076	"Planetary Position Effect on Short-Wave Signal Quality," J. H. Nelson, <i>Elec. Eng.</i> (May)	1952
3077	"Practical TVI Filter," J. H. Owens, <i>Radio-Electronics</i> (May) ..	1952
3078	"Televised Films—A Review of Current and Proposed Methods," P. J. Herbst, <i>Broadcast News</i> (May-June)	1952
3079	"Trouble Shooting 'Tough' Sets or 'Dogs'," J. R. Meagher, <i>TV Servicing</i> , Supplement I (May)	1952
3080	"TV Facilities for NBC Hollywood Studio 'D'," <i>Broadcast News</i> (May-June)	1952
3081	"TV Pattern for the Future," R. F. Guy, <i>Radio-Electronics</i> (May)	1952
3082	"Use of Thoriated-Tungsten Filaments in High-Power Transmitting Tubes," R. B. Ayer, <i>Proc. I.R.E.</i> (May)	1952
3083	"Heater-Cathode Leakage Hum Reduction by Means of a Shielded Heater," K. R. DeRemer and H. Johnson, <i>RCA Industry Service Laboratory Bulletin LB-861</i> (May 5)	1952

No.		Year
3084	"A Survey of Transistor Development," B. N. Slade, <i>RCA Industry Service Laboratory Bulletin LB-862</i> (May 19)	1952
3085	"A Crystal Ringing Circuit for Color Synchronization," J. Avins, <i>RCA Industry Service Laboratory Bulletin LB-863</i> (May 20)	1952
3086	"Transistor Oscillators," R. O. Endres, R. P. Moore, Jr., and E. A. Oser, <i>RCA Industry Service Laboratory Bulletin LB-865</i> (May 23)	1952
3087	"An Analysis of the Injection Locking of Magnetrons Used in Amplitude-Modulated Transmitters," J. S. Donal, Jr. and K. K. N. Chang, <i>RCA Review</i> (June)	1952
3088	"Increasing Tube Reliability in Industrial Circuits," D. G. Koch, <i>Prod. Eng.</i> (June)	1952
3089	"Pack-Carried Television Station," L. E. Flory, W. S. Pike, J. E. Dilley, and J. M. Morgan, <i>Electronics</i> (June)	1952
3090	"The Plasmatron, A Continuously Controllable Gas-Discharge Developmental Tube," E. O. Johnson and W. M. Webster, <i>Proc. I.R.E.</i> (June)	1952
3091	"Some New Ultra-High-Frequency Power Tubes," P. T. Smith, <i>RCA Review</i> (June)	1952
3092	"Some Types of Omnidirectional High-Gain Antennas for Use at Ultra-High Frequencies," J. Epstein, D. W. Peterson, and O. M. Woodward, Jr., <i>RCA Review</i> (June)	1952
3093	"Static Magnetic Matrix Memory and Switching Circuits," J. A. Rajchman, <i>RCA Review</i> (June)	1952
3094	"Studies of Externally Heated Hot Cathode Arcs, Part II—The Anode-Glow Mode," W. M. Webster, E. O. Johnson, and L. Malter, <i>RCA Review</i> (June)	1952
3095	"The Synchro-Screen as a Stage Setting for Motion Picture Presentation," B. Schlanger, W. A. Hoffberg, and C. R. Underhill, Jr., <i>Jour. S.M.P.T.E.</i> (June)	1952
3096	"A 7000-Megacycle Developmental Magnetron for Frequency Modulation," H. K. Jenny, <i>RCA Review</i> (June)	1952
3097	"Noise Factor Considerations and Measurement Techniques at UHF," B. Harris and A. T. Brennan, <i>RCA Industry Service Laboratory Bulletin LB-866</i> (June 5)	1952
3098	"The Control of Frequency Response and Stability of Point-Contact Transistors," B. N. Slade, <i>RCA Industry Service Laboratory Bulletin LB-867</i> (June 19)	1952
3099	"Germanium P-N-P Junction Transistors," L. D. Armstrong, J. I. Pantchechnikoff, C. W. Mueller, and R. R. Law, <i>RCA Industry Service Laboratory Bulletin LB-868</i> (June 23)	1952
3100	"P-N Junctions by Impurity Introduction Through an Intermediate Metal Layer," L. D. Armstrong, <i>RCA Industry Service Laboratory Bulletin LB-869</i> (June 23)	1952
3101	"Automatic Torque Controller for Torque Motors," C. E. Hittle, <i>Jour. S.M.P.T.E.</i> (July)	1952
3102	"The Empire State Television Antenna System," H. E. Gihring, <i>Broadcast News</i> (July-August)	1952
3103	"A High-Voltage, Cold-Cathode Rectifier," E. G. Linder, J. H. Coleman, and E. G. Apgar, <i>Proc. I.R.E.</i> (July)	1952
3104	"How to Estimate VHF or UHF Coverage," F. W. Smith, <i>Broadcast News</i> (July-August)	1952
3105	"Maximum Coverage for VHF-UHF TV," F. W. Smith, <i>Electronics</i> (July)	1952
3106	"New UHF-TV Antenna," Part 1—Construction and Performance Details of TFU-24B UHF Antennas, O. O. Fiet, <i>FM and Tele.</i> (July)	1952
3107	"Protecting Sensitive Current Meters," L. J. Giacoletto, <i>Electronics</i> (July)	1952
3108	"Specimen Charging in the Electron Microscope and Some Observations on the Size of Polystyrene Latex Particles," S. G. Ellis, <i>Jour. Appl. Phys.</i> (July)	1952

No.	Year
3109	1952
3110	1952
3111	1952
3112	1952
3113	1952
3114	1952
3115	1952
3116	1952
3117	1952
3118	1952
3119	1952
3120	1952
3121	1952
3122	1952
3123	1952
3124	1952
3125	1952
3126	1952
3127	1952
3128	1952
3129	1952
3130	1952
3131	1952
3132	1952
3133	1952
3134	1952

No.		Year
3135	"Feed Systems for the New Twelve-Section Superturndial Antenna," L. J. Wolf, <i>Broadcast News</i> (September-October) ..	1952
3136	"A High-Accuracy Time-Division Multiplier," E. A. Goldberg, <i>RCA Review</i> (September)	1952
3137	"A High-Conductivity Glass-to-Metal Seal," J. C. Turnbull, <i>RCA Review</i> (September)	1952
3138	"Low-Noise Traveling-Wave Amplifier," R. W. Peter, <i>RCA Review</i> (September)	1952
3139	"A Note on the Design of Constant Resistance Cathode-Ray Deflection Circuits," R. C. Webb, <i>RCA Review</i> (September) ..	1952
3140	"Parallel-Tuned Circuit Periodically Switched to a Direct-Current Source," L. J. Giacometti, <i>RCA Review</i> (September) ..	1952
3141	"A Pressure Microphone for Television and Broadcast Service," L. J. Anderson, <i>Broadcast News</i> (September-October)	1952
3142	"Survey of Transistor Development, Part I," B. N. Slade, <i>Rad. and Tele. News</i> (September)	1952
3143	"A Time-Division Multiplex Terminal," O. E. Dow, <i>RCA Review</i> (September)	1952
3144	"Transistor Oscillators," E. A. Oser, R. O. Endres, and R. P. Moore, Jr., <i>RCA Review</i> (September)	1952
3145	"UHF in Portland—How is it Doing?," J. P. Taylor, <i>Broadcast News</i> (September-October)	1952
3146	"Ultraviolet Television Microscopy," V. K. Zworykin, L. E. Flory, and R. E. Shrader, <i>Electronics</i> (September)	1952
3147	"Universal Design Curves for Tone-Control Circuits (Part III)," M. B. Knight, <i>Rad. and Tele. News</i> (September)	1952
3148	"Use of the Flying-Spot Scanner to Study Photosensitive Surfaces," J. I. Pantchevnikoff, S. Lasof, J. Kurshan, and A. R. Moore, <i>Rev. Sci. Instr.</i> (September)	1952
3149	"Use of Miniature Power Pentode RCA-6CL6 in Video Output Stages," <i>RCA Application Note AN-155</i> (September)	1952
3150	"Video Test Signal Generator," H. Borkan, W. C. Morrison, and J. G. Reddeck, <i>Electronics</i> (September)	1952
3151	"The 'Walkie-Lookie,'" A. E. Ohler, <i>Broadcast News</i> (September-October)	1952
3152	"The Walkie-Pushie-Lookie Television Camera," J. E. Burrell, <i>Tele-Tech</i> (September)	1952
3153	"Deflection Systems with Regulated Kickback High-Voltage Supplies for Tri-Color Kinescopes," M. D. Nelson, <i>RCA Industry Service Laboratory Bulletin LB-877</i> (September 5) ..	1952
3154	"A Vestigial Sideband Filter," J. B. Merrill, <i>RCA Industry Service Laboratory Bulletin LB-878</i> (September 10)	1952
3155	"Rhombic Antennas for UHF Television," A. J. Herbig, <i>RCA Industry Service Laboratory Bulletin LB-879</i> (September 10)	1952
3156	"Plural Electron Scattering and its Influence on Electron Diffraction Patterns," S. G. Ellis, <i>Phys. Rev.</i> (September 15) ..	1952
3157	"An Automatic Level-Setting Sync and AGC System," M. G. Kroger and E. O. Keizer, <i>RCA Industry Service Laboratory Bulletin LB-880</i> (September 16)	1952
3158	"Determination of Orientation and Deformation of Germanium Crystals," I. J. Hegyi, <i>RCA Industry Service Laboratory Bulletin LB-881</i> (September 17)	1952
3159	"A Transistor Curve Tracer," G. B. Herzog, R. D. Lohman, and J. Kurshan, <i>RCA Industry Service Laboratory Bulletin LB-882</i> (September 30)	1952
3160	"A Building-Block Approach to Magnetic Recording Equipment Design," K. Singer and J. L. Pettus, <i>Jour. S.M.P.T.E.</i> (October)	1952
3161	"Electron Microscopy of Some Marine Egg Inclusions," J. Hillier, A. I. Lansing, and T. B. Rosenthal, <i>Biological Bulletin</i> (October)	1952

No.		Year
3162	"Electron Microscopy of Some Marine Egg Surfaces," J. Hillier, A. I. Lansing, and T. B. Rosenthal, <i>Biological Bulletin</i> (October)	1952
3163	"Q-Meter Correction Chart for Q-Voltmeter Loading," R. E. Lafferty, <i>Tele-Tech</i> (October)	1952
3164	"R-F Coupling Nomograph," R. E. Lafferty, <i>Electronics</i> (October)	1952
3165	"Survey of Transistor Development, Part II," B. N. Slade, <i>Rad. and Tele. News</i> (October)	1952
3166	"Universal Design Curves for Tone-Control Circuits (Part IV)," M. B. Knight, <i>Rad. and Tele. News</i> (October)	1952
3167	"The Vibrating-Plate Viscometer—An Aid in Slip-Casting Control," J. G. Woodward, <i>American Ceramic Society Bulletin</i> (October)	1952
3168	"A Sweep Method for Measuring Envelope Delay," A. C. Schroeder, <i>RCA Industry Service Laboratory Bulletin 883</i> (October 3)	1952
3169	"Some Applications of Permanently Magnetized Ferrite Magnetostrictive Resonators," W. Van B. Roberts, <i>RCA Industry Service Laboratory Bulletin 884</i> (October 6)	1952
3170	"Electrical Measurements on Germanium," E. C. Giaimo, A. R. Moore, and J. Kurshan, <i>RCA Industry Service Laboratory Bulletin 885</i> (October 8)	1952
3171	"Low-Temperature Electrical Measurements on Semiconductors," R. L. Bjork, E. E. Hahn, and M. L. Schultz, <i>RCA Industry Service Laboratory Bulletin 886</i> (October 8)	1952
3172	"Reflexed Intercarrier Sound," J. Avins, <i>RCA Industry Service Laboratory Bulletin LB-887</i> (October 10)	1952
3173	"Miniature High-Performance Personal Radio Receivers," J. C. Bleazey, J. Preston, and H. F. Olson, <i>RCA Industry Service Laboratory Bulletin LB-888</i> (October 14)	1952
3174	"Application of Linear Active Four-Terminal Network Theory to Transistors," L. J. Giacoletto, <i>RCA Industry Service Laboratory Bulletin LB-889</i> (October 14)	1952
3175	"Purification of Germanium by Gradient Freezing," S. M. Christian, <i>RCA Industry Service Laboratory Bulletin 890</i> (October 17)	1952
3176	"Laboratory Equipment for Germanium Purification," E. C. Giaimo, <i>RCA Industry Service Laboratory Bulletin 891</i> (October 17)	1952
3177	"Preparation of Single Crystals of Germanium and Silicon," B. Selikson, <i>RCA Industry Service Laboratory Bulletin LB-892</i> (October 23)	1952
3178	"Experimentally Determined Radiation Characteristics of Conical and Triangular Antennas, O. M. Woodward, Jr. and G. H. Brown, <i>RCA Industry Service Laboratory Bulletin LB-893</i> (October 31)	1952
3179	"An All-Band Antenna and Coupler," J. H. Owens, <i>Ham Tips</i> (November)	1952
3180	"Broadcasting TV in the UHF Band," J. Epstein and D. W. Peterson, <i>Electronics</i> (November)	1952
3181	"The Control of Frequency Response and Stability of Point-Contact Transistors," B. N. Slade, <i>Proc. I.R.E.</i> (November)	1952
3182	"A Developmental Germanium P-N-P Junction Transistor," R. R. Law, C. W. Mueller, J. I. Pankove (Pantchechnikoff), and L. D. Armstrong, <i>Proc. I.R.E.</i> (November)	1952
3183	"Experimental 850-Mc TV Transmitter," G. A. Olive, <i>Electronics</i> (November)	1952
3184	"High-Efficiency Coolers for Power Tubes," M. B. Lemeshka and A. G. Nekut, <i>Tele-Tech</i> (November)	1952
3185	"Junction Transistor Equivalent Circuits and Vacuum-Tube Analogy," L. J. Giacoletto, <i>Proc. I.R.E.</i> (November)	1952

No.		Year
3186	"A New Superhet S-Meter Circuit," J. H. Owens, <i>Ham Tips</i> (November)	1952
3187	"P-N Junctions by Impurity Introduction Through an Intermediate Metal Layer, L. D. Armstrong, <i>Proc. I.R.E.</i> (November)	1952
3188	"Q-Meter Correction Chart for Distributed Capacitance," R. E. Lafferty, <i>Tele-Tech</i> (November)	1952
3188a	"Survey of Transistor Development, Part III," B. N. Slade, <i>Rad. and Tele. News</i> (November)	1952
3189	"Transistors Operate at 300 MC," G. M. Rose and B. N. Slade, <i>Electronics</i> (November)	1952
3190	"Transistor Trigger Circuits," A. W. Lo, <i>Proc. I.R.E.</i> (November)	1952
3191	"The Use of Radioactive Material for the Generation of High Voltage," E. G. Linder and S. M. Christian, <i>Jour. Appl. Phys.</i> (November)	1952
3192	"Ceramic-Metal Seals of the Tungsten-Iron Type," D. G. Burnside, <i>RCA Industry Service Laboratory Bulletin 894</i> (November 10)	1952
3193	"Resistivity Striations in Single-Crystal Germanium," P. R. Camp, <i>RCA Industry Service Laboratory Bulletin LB-896</i> (November 14)	1952
3194	"Methods of Processing Silver-Magnesium Secondary Emitters for Electron Tubes," P. Rappaport, <i>RCA Industry Service Laboratory Bulletin 897</i> (November 28)	1952
3195	"Attenuation of Wire Helices in Dielectric Supports," R. W. Peter, J. A. Ruetz, and A. B. Olson, <i>RCA Review</i> (December)	1952
3196	"Development of an Improved Graphochon Storage Tube," W. T. Dyall, G. R. Fadner, and M. D. Harsh, <i>RCA Review</i> (December)	1952
3197	"Electronic Structure of the Diamond Crystal," F. Herman, <i>Phys. Rev.</i> (December) (Letter to the Editor)	1952
3198	"Experimentally Determined Radiation Characteristics of Conical and Triangular Antennas," G. H. Brown and O. M. Woodward, Jr., <i>RCA Review</i> (December)	1952
3199	"Field Strengths Recorded on Adjacent FM Channels at 93 Megacycles over Distances from 40 to 150 Miles," G. S. Wickizer and A. B. Braaten, <i>Proc. I.R.E.</i> (December)	1952
3200	"One-Channel Converter for UHF Television," W. Y. Pan, <i>Electronics</i> (December)	1952
3201	"Photoconductivity Study of Activation of Barium Oxide," H. B. DeVore, <i>RCA Review</i> (December)	1952
3202	"Potential Distribution for Space-Charge Limited Current between a Plane Accelerating Grid and Parallel Anode," E. G. Ramberg and L. Malter, <i>Jour. Appl. Phys.</i> (December)	1952
3203	"A Profile of the Man in Industrial Research," E. W. Engstrom and E. H. Alexander, <i>Proc. I.R.E.</i> (December)	1952
3204	"Stable Oscillator for UHF TV Receivers," K. E. Loofbourrow and C. M. Morris, <i>Electronics</i> (December)	1952
3205	"Studies of the Oxide Cathode," L. S. Nergaard, <i>RCA Review</i> (December)	1952
3206	"Progress Report on Transistor Research and Circuit Applications," <i>RCA Industry Service Laboratory Bulletin LB-898</i> (December 17)	1952
3207	"Theoretical Resistivity and Hall Coefficient of Impure Germanium Near Room Temperature," P. G. Herkart and J. Kurshan, <i>RCA Industry Service Laboratory Bulletin LB-899</i> (December 18)	1952

No.		Year
3208	"Equipments for Measurement of Junction Transistor Small-Signal Parameters for a Wide Range of Frequencies," L. J. Giacoletto, <i>RCA Industry Service Laboratory Bulletin LB-900</i> (December 30)	1952
3209	<i>Applied Mathematics for Technical Students</i> , Revised Edition, M. S. Corrington, Harper and Brothers, New York, N. Y. . .	1952
3210	<i>Harmonics, Sidebands and Transients in Communications Engineering</i> , C. L. Cuccia, McGraw-Hill Book Co., New York, N. Y.	1952
3211	"Modulation of CW Magnetrons," J. S. Donal, Jr., Chapter of <i>Advances in Electronics</i> , Vol. IV, Edited by L. Marton, Academic Press, New York, N. Y.	1952
3212	<i>Musical Engineering</i> , H. F. Olson, McGraw-Hill Book Company, Inc., New York, N. Y.	1952
3213	<i>Radio Antenna Engineering</i> , E. A. Laport, McGraw-Hill Book Company, Inc., New York, N. Y.	1952
3214	"A Scientist Looks at Television in Relation to Its Social Aspects," V. K. Zworykin, Section of <i>Technion Yearbook</i> , 1951.	1952
3215	"The Scintillation Counter," G. A. Morton, Chapter of <i>Advances in Electronics</i> , Vol. IV, Edited by L. Marton, Academic Press, New York, N. Y.	1952
3216	<i>Storage Tubes and Their Basic Principles</i> , M. Knoll and B. Kazan, John Wiley and Sons, Inc., New York, N. Y.	1952
3217	"The Television Microscope," L. E. Flory, <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , Vol. XVI, 1951	1952

AUTHOR INDEX

Numbers refer to Chronological Index

A

Ackerman, M. J., 3124
Alexander, E. H., 3203
Allee, G. L., 3042
Anderson, L. J., 3141
Apgar, E. G., 3022, 3103
Armstrong, L. D., 3099, 3100, 3182,
3187
Avins, J., 3085, 3172
Ayer, R. B., 3082

B

Barkalow, F. S., 3112
Bjork, R. L., 3171
Blaney, A. C., 3117
Bleazey, J. C., 3173
Borkan, H., 3068, 3150
Braaten, A. B., 3199
Brennan, A. T., 3097
Brown, G. H., 3178, 3198
Brown, H. W., Jr., 3018
Brumbaugh, J. M., 3021
Bucklin, K. G., 3057
Burns, L. L., Jr., 3031
Burnside, D. G., 3192
Burrell, J. E., 3152
Bube, R. H., 3011, 3060
Byloff, R. W., 3071

C

Callaghan, J. D., 3019
Camp, P. R., 3193
Chang, K. K. N., 3087
Christian, S. M., 3175, 3191
Coleman, J. H., 3022, 3103
Cornell, J. A., 3027
Corryington, M. S., 3209
Cuccia, C. L., 3210

D

Davidson, P. W., 3122
DeBaun, J. R., 3045
del Valle, G. A., 3063
DeRemer, K. R., 3083
DeVore, H. B., 3201
Dilley, J. D., 3036, 3089
Dimmick, G. L., 3009
Donal, J. S., Jr., 3087, 3211
Dow, O. E., 3143
Drew, R. O., 3021
Dyall, W. H., 3196

E

Ellis, S. G., 3108, 3132, 3156
Endres, R. O., 3086, 3144
Engstrom, E. W., 3203
Engstrom, R. E., 3064
Epstein, J., 3092, 3180
Everett, F. C., 3014

F

Fadner, G. R., 3196
Fiet, O. O., 3048, 3106, 3121
Flory, L. E., 3016, 3036, 3089, 3146,
3217
Ford, J. R., 3129

G

Giacoletto, L. J., 3107, 3113, 3140,
3174, 3185, 3208
Giaino, E. C., 3170, 3176
Gihring, H. E., 3102
Glover, A. M., 3064
Goldberg, E. A., 3136
Goldstein, I. E., 3131
Gray, G. W., 3023
Green, M. W., 3122
Greenblatt, M. H., 3122
Guy, R. F., 3005, 3081

H

Hahn, E. E., 3171
Hall, R. J., 3051
Hanchett, G. D., Jr., 3057
Harris, E., 3097
Harsh, M. D., 3196
Hathaway, J. L., 3070
Haynes, H. E., 3024
Hegyi, I. J., 3158
Herbig, A. J., 3155
Herbst, P. J., 3021, 3040, 3078
Herkart, P. G., 3207
Herman, E. B., 3129
Herman, F., 3197
Herzog, G. B., 3159
Hillier, J., 3161, 3162
Hittle, C. E., 3066, 3101
Hoffberg, W. A., 3095
Hutt, M. H., 3006

J

Janes, R. B., 3049
 Jenny, H. K., 3096
 Johnson, Edward O., 3090, 3094
 Johnson, Ernest O., 3019
 Johnson, H., 3083

K

Kazan, B., 3216
 Keizer, E. O., 3157
 Kellaway, N. P., 3044, 3046
 Kelly, R. L., 3032
 Kidd, M. C., 3109
 King, H. E., 3131
 Knight, M. B., 3111, 3123, 3147, 3166
 Knoll, M., 3216
 Koch, D. G., 3088
 Korman, N. I., 3129
 Kornstein, E., 3042
 Koros, L. L., 3029, 3039
 Kozanowski, H. N., 3010
 Kroger, M. G., 3157
 Kurshan, J., 3134, 3148, 3159, 3170,
 3207

L

Lafferty, R. E., 3070, 3163, 3164,
 3188
 Laport, E. A., 3030, 3035, 3213
 Lasof, S., 3148
 Law, H. B., 3125
 Law, R. R., 3099, 3182
 Lemeshka, M. B., 3184
 Leverenz, H. W., 3052
 Linder, E. G., 3022, 3103, 3191
 Lo, A. W., 3127, 3190
 Lohman, R. D., 3159
 Loofbourrow, K. E., 3204
 Looney, L. A., 3014

M

Malter, L., 3094, 3202
 Matheson, R. M., 3119
 Meagher, J. R., 3073, 3079
 Merrill, J. B., 3154
 Monfort, R. A., 3045
 Moore, A. R., 3069, 3148, 3170
 Moore, R. P., Jr., 3086, 3144
 Morgan, J. M., 3089, 3036
 Morris, C. M., 3204
 Morrison, W. C., 3068, 3150
 Morton, G. A., 3122, 3215
 Mueller, C. W., 3099, 3182
 Murray, W. L., 3072

N

Nekut, A. G., 3184
 Nelson, J. H., 3076

Nelson, M. D., 3153
 Nergaard, L. S., 3119, 3205
 Newton, I. T., 3130
 Nicoll, F. H., 3054
 North, D. O., 3052

O

Obert, M. J., 3038
 Ohler, A. E., 3151
 Olive, G. A., 3183
 Olson, A. B., 3195
 Olson, H. F., 3173, 3212
 Oser, E. A., 3086, 3144
 Owens, J. H., 3077, 3179, 3186

P

Pan, W. Y., 3126, 3200
 Pankove (Pantchechnikoff), J. I.,
 3043, 3099, 3114, 3148, 3182
 Parker, D. J., 3042
 Peter, R. W., 3138, 3195
 Peterson, D. W., 3092, 3180
 Pettus, J. L., 3160
 Pike, W. S., 3036, 3089
 Preston, J., 3173
 Putzrath, F. L., 3063

R

Rajachman, J. A., 3093
 Ramberg, E. G., 3015, 3120, 3202
 Rappaport, P., 3194
 Reddeck, J. G., 3068, 3150
 Reisz, A., 3047, 3061
 Rettinger, M., 3007, 3055
 Roberts, W. Van B., 3169
 Rose, G. M., 3189
 Ruetz, J. A., 3195

S

Sachtleben, L. T., 3042
 Schade, O. H., 3041
 Scheldorf, R. D., 3124
 Schlanger, B., 3095
 Schroeder, A. C., 3168
 Schultz, M. L., 3171
 Selikson, B., 3177
 Shively, E. H., 3075
 Shrader, R. E., 3146
 Shumard, C. C., 3026
 Singer, K., 3065, 3160
 Slade, B. N., 3084, 3098, 3142, 3165,
 3181, 3188a, 3189
 Smith, A. L., 3067
 Smith, F. W., 3104, 3105
 Smith, P. T., 3091
 Spradlin, J. D., 3050
 Sterner, J. F., 3027
 Stewart, W. E., 3116
 Stott, H. B., 3038

Stoudenheimer, R. G., 3064
 Stripp, K. F., 3011

T

Talmage, F. E., 3013, 3017
 Taylor, J. P., 3145
 Thomsen, S. M., 3058
 Tomlin, W. M., 3037
 Turnbull, J. C., 3137
 Tuska, C. D., 3012, 3025

U

Underhill, C. R., Jr., 3095

V

Vance, A. W., 3026
 Veith, F. S., 3049
 Vine, B. H., 3049
 Vonderschmitt, B. V., 3038

W

Wallmark, J. T., 3008
 Walsh, A. A., 3045
 Ward, H. C., 3065
 Washburn, E. M., 3040
 Webb, R. C., 3139
 Webster, W. M., 3090, 3094, 3114
 Weisz, R. S., 3056, 3062
 Wentworth, C., 3118
 Werenfels, P. H., 3128
 Wickizer, G. S., 3199
 Widdop, M. E., 3009
 Wolf, L. J., 3135
 Woodward, J. G., 3028, 3162
 Woodward, O. M., Jr., 3092, 3115,
 3178, 3198

Z

Zworykin, V. K., 3015, 3016, 3146,
 3214

SUBJECT INDEX

Numbers refer to Chronological Index

ACOUSTICS — AUDIO-FREQUENCY SYSTEMS

Broadcast: 3116
Film Projector: 3063
Magnetic Recording: 3055, 3065,
3066, 3117, 3160
Measurements: 3109
Microphone: 3141
Musical Engineering: 3212
Tone Control: 3111, 3123, 3147, 3166
Volume Compressor: 3024

ANTENNAS — TRANSMISSION LINES

All Band: 3179
Baluns: 3115
Conical: 3178, 3198
Diplexer: 3131
General: 3213
Pattern Analysis: 3129
Rhombic: 3030, 3035, 3155
Television: 3019, 3048, 3075, 3092,
3102, 3106, 3121, 3130, 3135, 3155
Triangular: 3178, 3198

CIRCUITS — COMPONENTS

AGC: 3157
Circuit Stability: 3032
Cooling System: 3184
Deflection: 3034, 3059, 3139, 3153
Dielectric: 3118
Ferrites: 3038, 3056, 3062, 3169
Filament Supply: 3026
Frequency Stabilization: 3040
Helices: 3195
Magnets: 3033
Mechanical Filter: 3031
Meter Protection: 3107
Miniature Receiver: 3173
Rectifiers: 3022
RF-Coupling Nomograph: 3164
Theory: 3140
Video Output: 3149

COMMUNICATIONS

Amateur: 3018
Magnetic Disturbance: 3076
Mathematics: 3210
Mobile: 3018
Multiplex Terminal: 3143
Receivers: 3018, 3057
Transmitter: 3018

EDITORIAL

General: 3203
Television: 3214

ELECTRON OPTICS

Kinescope Magnets: 3033
Microscope: 3108, 3132, 3156, 3161,
3162
Potential Distribution: 3202

ELECTRON TUBES

Beam Deflection: 3008	Phosphors: 3011, 3052, 3060, 3067
Cathode Activation: 3201	Photocells: 3043, 3064, 3122
Color Kinescopes: 3120, 3125	Plasmatron: 3090
Construction: 3082, 3083, 3194	Rectifier: 3103
Filaments: 3082	Reliability: 3088
Graphochon: 3196	Seals: 3137, 3192
Heaters: 3134	Storage Tubes: 3216
Magnetrons: 3029, 3039, 3087, 3096, 3211	Theory: 3094, 3119, 3120
Oxide Cathodes: 3119, 3205	Traveling-Wave Tubes: 3138
Pencil Triodes: 3133	UHF Power: 3091
	Vidicon: 3049

MATHEMATICS

General: 3209

MEASUREMENTS — TESTS — SERVICING

Baluns: 3115	Square-Wave Generator: 3023
Envelope Delay: 3168	Sweep Generator: 3027
FM Monitor: 3070	Television Servicing: 3037, 3073, 3079
FM Propagation: 3199	Tone-Burst Generator: 3109
Oscilloscope: 3124	Video Signal Generator: 3068, 3150
Q-Meter: 3163, 3188	
S-Meter: 3186	

MOTION PICTURES

Synchro-Screen: 3095

OPTICS

Chemistry: 3058	Heat-Transmitting Mirror: 3009
Color Television: 3042	Interference Films: 3054

RECORDING — REPRODUCTION

Film Projector: 3063	Magnetic: 3055, 3065, 3066, 3117, 3160
----------------------	---

SPECIAL EQUIPMENT AND DEVICES

Computer: 3093, 3136	Scintillation Counter: 3215
Flying-Spot Scanner: 3148	Torque Controller: 3101
Radioactive Voltage Source: 3191	Viscometer: 3215

TELEVISION

AGC: 3157
 Antennas: 3019, 3048, 3075, 3092,
 3102, 3106, 3121, 3130, 3135, 3155
 Carrier Offset: 3040
 Camera: 3010, 3047, 3061
 Color Camera: 3042, 3050
 Color Kinescope: 3120, 3125
 Color Sync: 3085
 Coverage: 3104, 3105, 3130
 Deflection Circuits: 3034, 3059,
 3139, 3153
 Engineering Requirements: 3110
 Film: 3072, 3078
 General: 3081, 3214
 Historical: 3012, 3025
 Intercarrier Sound: 3172
 Monitor: 3044, 3046
 Non-Broadcast: 3016, 3146, 3217
 Picture Analysis: 3041
 Portable: 3036, 3089, 3151, 3152
 Receiver: 3010, 3053, 3204
 Recording: 3021
 Servicing: 3037, 3079
 Sideband Filter: 3154
 Signal Generator: 3068
 Standards Conversion: 3015
 Studio Console: 3071
 Studios: 3007, 3045, 3074, 3080
 Sync: 3157
 Transmitter: 3013, 3014, 3017, 3183
 U.H.F.: 3051, 3091, 3097, 3126,
 3145, 3180, 3183, 3200, 3204
 Video Output Circuit: 3149
 Vidicon: 3049

TRANSISTORS — SEMICONDUCTORS

Circuits: 3086, 3113, 3127, 3144,
 3174, 3186, 3189, 3190
 Crystals: 3158, 3177, 3193, 3197
 General: 3084, 3142, 3165, 3188a,
 3206
 Germanium Purification: 3175, 3176
 Junctions: 3069, 3100, 3187
 Junction-Type: 3099, 3182
 Measurement: 3114, 3128, 3159,
 3170, 3171, 3207, 3208
 Point-Contact Type: 3098, 3181,
 3189

TRANSMITTERS

Amateur: 3077, 3112
 Broadcast: 3006, 3014
 FM: 3014
 Television: 3013, 3014, 3017, 3183