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# RCA TECHNICAL PAPERS

(1946-1950)



# INDEX

Volume II





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(1946-1950)

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## INDEX

Volume II

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# RCA TECHNICAL PAPERS

## (1946-1950)

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### INDEX

### Volume II

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This index, together with Volume I (1919-1945), lists substantially all published English-language technical papers on subjects in the radio, electronics and related fields, the authors of which were associated with Radio Corporation of America (including its various divisions and subsidiary companies) at the time of the paper's preparation or at the time the work described in the paper was performed.

This volume covers the period 1946-1950. It includes all listings contained in subvolumes II(a), (b), (c) and (d), and supersedes these subvolumes.

The chronological index section is followed by a section arranged alphabetically by titles, a section arranged alphabetically by authors, and a subject classification section.

Subsequent volumes will cover successive five-year periods, consolidating under one cover the yearly indexes which are issued shortly after the end of each intermediate year.

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\* \* \*

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

*The Manager, RCA Review*

RCA Laboratories,  
Princeton, N. J.  
June 1, 1951

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## ABBREVIATIONS

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

<i>Amer. Jour. Phys.</i> .....	AMERICAN JOURNAL OF PHYSICS
<i>Audio Eng.</i> .....	AUDIO ENGINEERING
<i>Broad. Eng. Jour.</i> .....	BROADCAST ENGINEERS JOURNAL
<i>Elec. Eng.</i> .....	ELECTRICAL ENGINEERING
<i>Electronic Ind.</i> .....	ELECTRONIC INDUSTRIES
<i>FM and Tele.</i> .....	FM AND TELEVISION
<i>Inter. Project.</i> .....	INTERNATIONAL PROJECTIONIST
<i>Jour. Acous. Soc. Amer.</i> .....	JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA
<i>Jour. Amer. Ceramic Soc.</i> .....	JOURNAL OF THE AMERICAN CERAMIC SOCIETY
<i>Jour. Amer. Chem. Soc.</i> .....	JOURNAL OF THE AMERICAN CHEMICAL SOCIETY
<i>Jour. Appl. Phys.</i> .....	JOURNAL OF APPLIED PHYSICS
<i>Jour. Bacteriology.</i> .....	JOURNAL OF BACTERIOLOGY
<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. Soc. Mot. Pic. Eng.</i> .....	JOURNAL OF THE SOCIETY OF MOTION PICTURE ENGINEERS
<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. Amer. Phil. Soc.</i> .....	PROCEEDINGS OF THE AMERICAN PHILOSOPHICAL SOCIETY
<i>Proc. I.R.E.</i> .....	PROCEEDINGS OF THE INSTITUTE OF RADIO ENGINEERS
<i>Proc. Rad. Club Amer.</i> .....	PROCEEDINGS OF THE RADIO CLUB OF AMERICA
<i>Rad. and Tele. News.</i> .....	RADIO AND TELEVISION NEWS
<i>RCA Rad. Serv. News.</i> .....	RCA RADIO SERVICE NEWS
<i>Rev. Mod. Phys.</i> .....	REVIEWS OF MODERN PHYSICS
<i>Rev. Sci. Instr.</i> .....	REVIEW OF SCIENTIFIC INSTRUMENTS
<i>Teleg. and Teleph. Age.</i> .....	TELEGRAPH AND TELEPHONE AGE
<i>Trans. A.I.E.E.</i> .....	TRANSACTIONS OF THE AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS
<i>TV Eng.</i> .....	TELEVISION ENGINEERING

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1781	"Gradient Microphones", H. F. Olson, <i>Jour. Acous. Soc. Amer.</i> (January) .....	1946
1782	"High Output Transmitter-Receiver", B. W. Southwell, <i>CQ</i> (January) .....	1946
1783	"Intermodulation Distortion of Low Frequencies in Sound Film Recording", F. G. Albin, <i>Jour. Soc. Mot. Pic. Eng.</i> (January) .....	1946
1784	"Multi-Unit Construction—A Feature of New FM Trans- mitters", J. L. Ciba, <i>Broadcast News</i> (January) .....	1946
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1786	"New Ratio Detector Simplifies FM Receiver Design", S. W. Seeley, <i>Broadcast News</i> (January) .....	1946
1787	"On the Improvement of Resolution in Electron Diffraction Cameras", J. Hillier and R. F. Baker, <i>Jour. Appl. Phys.</i> (January) .....	1946
1788	"Push-Pull Frequency Modulated Circuit and Its Application to Vibratory Systems", A. Badmaieff, <i>Jour. Soc. Mot. Pic. Eng.</i> (January) .....	1946
1789	"RCA Micro-Wave Relay System", H. F. Mickel, <i>Broadcast News</i> (January) .....	1946
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1795	"Integrating Meter for Measurement of Fluctuating Voltages", H. E. Haynes, <i>Jour. Soc. Mot. Pic. Eng.</i> (February) .....	1946
1796	"Measurement of Small Running Torques with a Driving-Type Dynamometer", H. A. Brelsford, <i>Product Engineering</i> (February) .....	1946
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1798	"Radio-Frequency Dehydration of Penicillin Solution", G. H. Brown, R. A. Bierwirth and C. N. Hoyler, <i>Proc. I. R. E.</i> (February) .....	1946
1799	"Radio-Frequency Resistors as Uniform Transmission Lines", D. R. Crosby and C. H. Pennypacker, <i>Proc. I.R.E.</i> (Febru- ary) .....	1946
1800	"RCA Time-Division Multiplex", R. Hutchens, <i>Relay</i> (Febru- ary) .....	1946
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1803	"The Teleran Proposal", P. J. Herbst, I. Wolff, D. Ewing, and L. F. Jones, <i>Electronics</i> (February) .....	1946
1804	"Transmission of Television Sound on the Picture Carrier", G. L. Fredendall, K. Schlesinger and A. C. Schroeder, <i>Proc. I.R.E.</i> (February) .....	1946
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1811	"The Transmission of a Frequency-Modulated Wave Through a Network", W. J. Frantz, <i>Proc. I.R.E.</i> (March) .....	1946
1812	"Field Television", R. E. Shelby and H. P. See, <i>RCA Review</i> (March) .....	1946
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1815	"Induction Heating in Radio Electron Tube Manufacture", E. E. Spitzer, <i>Proc. I.R.E.</i> (March) .....	1946
1816	"Local Oscillator Radiation and its Effect on Television Picture Contrast," E. W. Herold, <i>RCA Review</i> (March) .....	1946
1817	"Merchant Marine Radar", I. F. Byrnes, <i>RCA Review</i> (March) .....	1946
1818	"Observations and Comparisons on Radio Telegraph Signaling by Frequency Shift and On-Off Keying", H. O. Peterson, J. B. Atwood, H. E. Goldstine, G. E. Hansell and R. E. Schock, <i>RCA Review</i> (March) .....	1946
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1827	"Further Improvement in the Resolving Power of the Electron Microscope", J. Hillier, <i>Jour. Appl. Phys.</i> (April) .....	1946
1828	"Grounded-Grid Power Amplifiers", E. E. Spitzer, <i>Electronics</i> (April) .....	1946
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1839	"Ultrasonic Generator", F. W. Smith, Jr. (coauthor), <i>Electronics</i> (April) .....	1946
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1882	"Theatre Servicing Test Equipment", E. Stanko and P. V. Smith, <i>Electronics</i> (July) .....	1946
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1894	"Recent Developments in Cathode-Ray Tubes", W. H. Painter, <i>Electrical Manufacturing</i> (August)	1946
1895	"The Electron Microscope and Its Application To the Study of Metals", R. G. Picard, <i>Metallurgia</i> (August)	1946
1896	"A New Synchronizing and Blanking Signal Generator", E. Schoenfeld, W. Milwitt and W. Brown, <i>RCA Licensee Bulletin LB-678</i> (August 1)	1946
1897	"Induction Effects in Terrestrial Magnetism, Part II. The Secular Variation", W. M. Elsasser, <i>Phys. Rev.</i> (August 1 & 15)	1946
1898	"Television High Voltage R-F Supplies", R. S. Mautner and O. H. Schade, <i>RCA Licensee Bulletin LB-675</i> (August 15)	1946
1899	"Table of the Integral $\frac{2}{\pi} \int_0^x \frac{\tanh^{-1} t}{t} dt$ ", M. S. Corrington <i>RCA Review</i> (September)	1946
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1901	"Thermal and Acoustic Effects Attending the Absorption of Microwaves by Gases", W. D. Hershberger, E. T. Bush and G. W. Leck, <i>RCA Review</i> (September)	1946
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1918	"Electrons at Work in Electron Tubes", R. S. Burnap, <i>RCA Rad. Serv. News</i> (September-October)	1946

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1922	"Radio Heating in Textile Industry", C. N. Batsel, <i>Radio News</i> (October) .....	1946
1923	"The TK-30A Camera with the Image Orthicon", N. S. Bean, <i>Broadcast News</i> (October) .....	1946
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2109	"An Electronic Multicircuit Breaker", G. D. Hanchett, Jr., <i>QST</i> (August) .....	1947
2110	"External Cross Modulation—Its Cause and Cure", D. E. Foster, <i>RCA Rad. Serv. News</i> (August-September) .....	1947
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2115	"Service to the Radio Industry", Pamphlet, RCA Industry Service Laboratory, New York, N. Y. (August) .....	1947
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2117	"The Use of Wave Traps as a Remedy for Interference in Video Reception", <i>RCA Rad. Serv. News</i> (August-September) ..	1947
2118	"Degenerative I-F Amplifier", R. S. Mautner and P. Neuwirth, <i>RCA Licensee Bulletin LB-722</i> (August 20) .....	1947
2119	"Application of I.C.I. Color System to Development of All-Sulphide White Television Screen", A. E. Hardy, <i>RCA Review</i> (September) .....	1947
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2125	"Electronic Inspection of Packaged Products for Foreign Metals", P. A. Greenmeyer, <i>Modern Packaging</i> (September)	1947
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2138	"Recording Studio 3A", G. M. Nixon, <i>Broadcast News</i> (September) .....	1947
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2140	"Special Applications of U-H-F Wide Band Sweep Generators", J. A. Bauer, <i>RCA Review</i> (September) .....	1947
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2142	"An Experimental Simultaneous Color Television System", <i>RCA Licensee Bulletin LB-729</i> (September 3) .....	1947
2143	"Intercarrier Sound System for Television", H. M. Bach and E. I. Anderson, <i>RCA Licensee Bulletin LB-727</i> (September 10) .....	1947
2144	"Class B Output for Automobile Receivers", L. E. Barton and J. B. Coleman, <i>RCA Licensee Bulletin LB-726</i> (September 15) .....	1947
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2151	"Improving Candy Inspection Methods", P. A. Greenmeyer, <i>Manufacturing Confectioner</i> (October) .....	1947
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2154	"Recommended Maintenance Procedure for the Reproducing System", <i>NBC Eng. Notice (Recording) No. 31</i> , National Broadcasting Co. Inc., New York, N. Y. (October) .....	1947
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2159	"Laboratory Antenna Distribution System", F. Mural, <i>RCA Licensee Bulletin LB-730</i> (October 6) .....	1947

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2161	"New Features in Table Model Radio Receivers", W. L. Carlson and L. E. Barton, <i>RCA Licensee Bulletin LB-720</i> (October 11) .....	1947
2162	"Compensation of Frequency Drift", <i>RCA Application Note AN-122</i> , RCA Tube Department, Harrison, N. J. (October 15) .....	1947
2163	"Receiver Microphonics Caused by Heater-Cathode Capacitance Variations", <i>RCA Application Note AN-123</i> , RCA Tube Department, Harrison, N. J. (October 15) .....	1947
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2180	"A Comparison of Lateral and Vertical Disc Recording Systems", R. A. Lynn, <i>Broad. Eng. Jour.</i> (December) .....	1947
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2201	"Radio—1946", G. L. Beers, SECTION OF AMERICAN YEARBOOK ..	1947
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2242	"Stereoscopic Viewing of Cathode-Ray Tube Presentations", H. Iams, R. L. Burtner and C. H. Chandler, <i>RCA Review</i> (March) .....	1948
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2288	"A Permeability-Tuned Television Tuner", R. F. Romero, <i>RCA Licensee Bulletin LB-756</i> (June 20) .....	1948
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2300	"Continuously Variable Band-Elimination Filter", by Kurt Singer, <i>Jour. Soc. Mot. Pic. Eng.</i> (August) .....	1948
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2308	"Engineering Responsibilities in Creating New Products", J. B. Davis and M. M. Brandt, <i>Product Engineering</i> (September)	1948
2309	"Flexible Low Friction Contact", Louis Pensak and Meier Sadovsky, <i>The Chemist Analyst</i> (September) .....	1948
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2310	"An Optical Bench for Electron Optical Studies", J. H. Reisner & R. G. Picard, <i>Rev. Sci. Instr.</i> (September) .....	1948
2311	"The Pack Transmitter", J. L. Hathaway and W. Hotine, <i>RCA Review</i> (September) .....	1948
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2314a	"Television Service—Part III", J. R. Meagher, <i>RCA Rad. Serv. News</i> (September-October)	1948
2315	"Temperature Dependence of the Emission Bands of Zinc Oxide Phosphors", by F. H. Nicoll, <i>Jour. Opt. Soc. Amer.</i> (September)	1948
2316	"A 150-kw Transmitter for Standard Band Broadcasting", T. J. Boerner, <i>Elec. Eng.</i> (September)	1948
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2319	"The Chemistry of High-Speed Electrolytic Facsimile Recording", H. G. Grieg, <i>Proc. I.R.E.</i> (October)	1948
2320	"Custom-Built Dual-Recording Console", A. S. Karker, <i>Broadcast News</i> (October)	1948
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2325	"Oil-Filled Miniature Tuning Capacitors", S. Wald, <i>Tele-Tech</i> (October)	1948
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2327	"Single-Sideband Crystal Filters", P. K. Taylor, <i>Electronics</i> (October)	1948
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2330	"An A.C.-D.C. Receiver for AM and FM", W. A. Harris and R. F. Dunn, <i>Radio News</i> (November)	1948
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2341	"35-Mm. Magnetic Recording System", E. Masterson, <i>Jour. Soc. Mot. Pic. Eng.</i> (November) .....	1948
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2355	"Planning Radio and Television Studios", G. M. Nixon, <i>Broadcast News</i> (December) .....	1948
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2381	"Television Tuner Analysis and Design Considerations", R. F. Romero, <i>RCA Licensee Bulletin LB-764</i> (January 15) . . . .	1949
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