

IRE CUMULATIVE INDEX

1954-1958

Proceedings of the IRE

IRE Transactions

IRE National Convention Record

IRE WESCON Convention Record

IRE Student Quarterly



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Published by The Institute of Radio Engineers, Inc.
1 East 79th Street, New York 21, N.Y.

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Preface

This Index covers all technical papers and letters that have been published by the IRE during the five-year period 1954-1958. It provides a single, combined index to the following publications: PROCEEDINGS OF THE IRE, IRE TRANSACTIONS (of twenty-six Professional Groups), IRE NATIONAL CONVENTION RECORD, IRE WESCON CONVENTION RECORD, and IRE STUDENT QUARTERLY.

The Index consists of two sections—an Author Index (page 1) and a Subject Index (page 55).

Author Index

The Author Index gives a full listing of the senior author and his co-authors, title of the paper or letter, and a publication code (explained further below) which indicates the name of the publication, page number, month, and year. The symbol (L) immediately follows the title if the item is a *Letter to the Editor* or its equivalent (such as *Communication*, *Correspondence*, *Experimental Note*, etc.).

In addition, each co-author has a separate listing which gives a cross reference to the senior author under whose name the full listing may be found.

Where an author has published more than one paper or letter, his listings are arranged in chronological order according to month and year of publication.

Subject Index

The Subject Index gives the name of the senior author, followed by a publication code (explained further below) which indicates the name of the publication, month, and year.

Further information concerning co-authors, complete title, whether a paper or a letter, and page number can be found by looking up the senior author in the author index. If the author in question has written several papers, the desired paper can be identified quickly by the publication

code and by the fact that his paper will be listed chronologically.

Publication Code

A publication code is used in the Author Index which consists of 1) abbreviation of the name of the publication, 2) page number, 3) month, and 4) year. For example,

P 1062 Aug 56

means that the article appeared in PROCEEDINGS OF THE IRE on page 1062 of the August, 1956, issue. The same code is used in the Subject Index, except that the page number is omitted.

The publication abbreviations used in the code are as follows:

- P for PROCEEDINGS OF THE IRE
- NCR for IRE NATIONAL CONVENTION RECORD
- WCR for IRE WESCON CONVENTION RECORD
- SQ for IRE STUDENT QUARTERLY
- T for IRE TRANSACTIONS of the Professional Groups.

(See inside front and back covers for more detailed information.)

Prior Cumulative Indexes

Cumulative Indexes for years prior to 1954 are available as follows:

1913-1942	Nonmembers	\$2.25
	Libraries	\$1.65
	Members	\$1.25.
1943-1947	Same as above.	
1948-1953	Nonmembers	\$3.00
	Libraries	\$2.40
	Members	\$1.25.

IRE PUBLICATIONS ISSUED DURING 1954-1958

A list of available publications, and their prices, can be obtained from
the Institute of Radio Engineers, 1 East 79 Street, New York 21, N.Y.

PROCEEDINGS OF THE IRE

1954 vol 42 monthly
1955 vol 43 monthly
1956 vol 44 monthly
1957 vol 45 monthly
1958 vol 46 monthly

IRE NATIONAL CONVENTION RECORD*

1954 vol 2 parts 1-11
1955 vol 3 parts 1-10
1956 vol 4 parts 1-9
1957 vol 5 parts 1-10
1958 vol 6 parts 1-10

IRE WESCON CONVENTION RECORD

1957 vol 1 parts 1-10
1958 vol 2 parts 1-9

IRE STUDENT QUARTERLY

1954-1955 vol 1 Sept Dec Feb May
1955-1956 vol 2 Sept Dec Feb May
1956-1957 vol 3 Sept Dec Feb May
1957-1958 vol 4 Sept Dec Feb May
1958 vol 5 Sept Dec

IRE TRANSACTIONS†

Aeronautical and Navigational Electronics

T-ANE: 1954 vol ANE-1 Mar Jun Sep Dec
T-ANE: 1955 vol ANE-2 Mar Jun Sep Dec
T-ANE: 1956 vol ANE-3 Mar Jun Sep Dec
T-ANE: 1957 vol ANE-4 Mar Jun Sep Dec
T-ANE: 1958 vol ANE-5 Mar Jun Sep Dec

Antennas and Propagation

T-AP: 1954 vol AP-2 Jan Apr Jul Oct
T-AP: 1955 vol AP-3 Jan Apr Jul Oct
T-AP: 1956 vol AP-4 Jan Apr Jul Oct
T-AP: 1957 vol AP-5 Jan Apr Jul Oct
T-AP: 1958 vol AP-6 Jan Apr Jul Oct

Audio

T-AU: 1954 vol AU-2 Jan-Feb Mar-Apr May-Jun Jul-Aug Sep-Oct Nov-Dec
T-AU: 1955 vol AU-3 Jan-Feb Mar-Apr May-Jun Jul-Aug Sep-Oct Nov-Dec
T-AU: 1956 vol AU-4 Jan-Feb Mar-Apr May-Jun Jul-Aug Sep-Oct Nov-Dec

T-AU: 1957 vol AU-5 Jan-Feb Mar-Apr May-Jun Jul-Aug Sep-Oct Nov-Dec

T-AU: 1958 vol AU-6 Jan-Feb Mar-Apr May-Jun Jul-Aug Sep-Oct Nov-Dec

Automatic Control

T-AC: 1956 PGAC-1 May
T-AC: 1957 PGAC-2,3 Feb Nov
T-AC: 1958 PGAC-4,5,6 Mar Jul Dec

Broadcast and Television Receivers

T-BTR: 1954 PGBTR-5,6,7,8 Jan Apr Jul Oct
T-BTR: 1955 vol BTR-1 Jan Apr Jul Oct
T-BTR: 1956 vol BTR-2 Apr Jul Oct
T-BTR: 1957 vol BTR-3 Jun Oct
T-BTR: 1958 vol BTR-4 Feb Mar Jun Sep

Broadcast Transmission Systems

T-BTS: 1955 PGBTS-1,2 Mar Dec
T-BTS: 1956 PGBTS-3,4,5,6 Jan Mar Sep Oct
T-BTS: 1957 PGBTS-7,8,9 Feb Jun Dec
T-BTS: 1958 PGBTS-10,11,12 Jun Sep Dec

Circuit Theory

T-CT: 1954 vol CT-1 Mar Jun Sep Dec
T-CT: 1955 vol CT-2 Mar Jun Sep Dec
T-CT: 1956 vol CT-3 Mar Jun Sep Dec
T-CT: 1957 vol CT-4 Mar Jun Sep Dec
T-CT: 1958 vol CT-5 Mar Jun Sep Dec

Communications Systems

T-CS: 1954 vol CS-2 Jan Jul Nov
T-CS: 1955 vol CS-3 Mar
T-CS: 1956 vol CS-4 Mar May Oct
T-CS: 1957 vol CS-5 Mar Sep Dec
T-CS: 1958 vol CS-6 Jun Dec

Component Parts

T-CP: 1954 PGCP-1,2 Mar Sep
T-CP: 1955 PGCP-3,4 Apr Nov
T-CP: 1956 vol CP-3 Mar Sep Dec
T-CP: 1957 vol CP-4 Mar Jun Sep Dec
T-CP: 1958 vol CP-5 Mar Jun Sep Dec

Education

T-E: 1958 vol E-1 Mar Jun Sep Dec

Electron Devices

T-ED: 1954 vol ED-1 Feb Apr Aug Dec
T-ED: 1955 vol ED-2 Jan Apr Jul Oct
T-ED: 1956 vol ED-3 Jan Apr Jul Oct
T-ED: 1957 vol ED-4 Jan Apr Jul Oct
T-ED: 1958 vol ED-5 Jan Apr Jul Oct

Electronic Computers

T-EC: 1954 vol EC-3 Mar Jun Sep Dec
T-EC: 1955 vol EC-4 Mar Jun Sep Dec
T-EC: 1956 vol EC-5 Mar Jun Sep Dec
T-EC: 1957 vol EC-6 Mar Jun Sep Dec
T-EC: 1958 vol EC-7 Mar Jun Sep Dec

Engineering Management

T-EM: 1954 PGEM-1,2 Feb Nov
T-EM: 1955 PGEM-3 Mar
T-EM: 1956 vol EM-3 Jan Apr Jul
T-EM: 1957 vol EM-4 Mar Jun Sep Dec
T-EM: 1958 vol EM-5 Mar Jun Sep Dec

Engineering Writing and Speech

T-EWS: 1958 vol EWS-1 Mar Aug‡

Industrial Electronics

T-IE: 1955 PGIE-2 Mar
T-IE: 1956 PGIE-3 Mar
T-IE: 1957 PGIE-4 Mar
T-IE: 1958 PGIE-5,6,7 Apr May Aug

Information Theory

T-IT: 1954 PGIT-3,4 Mar Sep
T-IT: 1955 vol IT-1 Mar Sep Dec
T-IT: 1956 vol IT-2 Mar Jun Sep Dec
T-IT: 1957 vol IT-3 Mar Jun Sep Dec
T-IT: 1958 vol IT-4 Mar Jun Sep Dec

Instrumentation

T-I: 1954 PGI-3 Apr
T-I: 1955 PGI-4 Oct
T-I: 1956 PGI-5 Jun
T-I: 1957 vol I-6 Mar Jun Dec
T-I: 1958 vol I-7 Mar Jun Dec

Medical Electronics

T-ME: 1955 PGME-2,3 Oct Nov
T-ME: 1956 PGME-4,5,6,7 Feb Jul Oct Dec
T-ME: 1957 PGME-8,9 Jul Dec
T-ME: 1958 PGME-10,11,12 Mar Jun Dec

Microwave Theory and Techniques

T-MTT: 1954 vol MTT-2 Apr Jul Sep
T-MTT: 1955 vol MTT-3 Jan Mar Apr Jul Oct Dec
T-MTT: 1956 vol MTT-4 Jan Apr Jul Oct
T-MTT: 1957 vol MTT-5 Jan Apr Jul Oct
T-MTT: 1958 vol MTT-6 Jan Apr Jul Oct

Military Electronics

T-MIL: 1957 vol MIL-1 Mar Dec
T-MIL: 1958 vol MIL-2 Dec

Nuclear Science

T-NS: 1954 vol NS-1 Sep
T-NS: 1955 vol NS-2 Jun
T-NS: 1956 vol NS-3 Feb Mar Jun Nov
T-NS: 1957 vol NS-4 Mar Dec
T-NS: 1958 vol NS-5 Jun Aug Dec

Production Techniques

T-PT: 1956 PGPT-1 Sep
T-PT: 1957 PGPT-2 Apr
T-PT: 1958 PGPT-3 Apr

‡ August issue erroneously labeled vol. EWS-2.

* Prior to 1957, the title was IRE CONVENTION RECORD.

† Prior to mid-1955, all TRANSACTIONS were titled TRANSACTIONS OF THE IRE PROFESSIONAL GROUP ON _____.

Reliability and Quality Control

§T-RQC: 1954 PGQC-3,4 Feb Dec
T-RQC: 1955 PGRQC-5 Apr
T-RQC: 1956 PGRQC-6,7,8 Feb Apr Sep
T-RQC: 1957 PGRQC-9,10,11,12 Jan Jun
Aug Nov
T-RQC: 1958 PGRQC-13,14,15 Jul Sep
Dec

§ Formerly T-QC; now T-RQC.

Telemetry and Remote Control

||T-TRC: 1954 PGRTRC-1,2 Aug Nov
T-TRC: 1955 vol TRC-1 Feb May Aug
T-TRC: 1956 vol TRC-2 Mar
T-TRC: 1957 vol TRC-3 Apr May Dec
T-TRC: 1958 vol TRC-4 Jun

Ultrasonics Engineering

T-UE: 1954 PGUE-1,2 Jun Nov

|| Formerly T-RTRC; now T-TRC.

T-UE: 1955 PGUE-3 May
T-UE: 1956 PGUE-4, Aug
T-UE: 1957 PGUE-5,6 Aug Dec

Vehicular Communications

T-VC: 1954 PGVC-4 Jun
T-VC: 1955 PGVC-5, Jun
T-VC: 1956 PGVC-6,7 Jul Dec
T-VC: 1957 PGVC-8,9 May Jun
T-VC: 1958 PGVC-10,11 Apr Jul

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- Aamodt T and Harvey FK, Large area microphones for distant pickup use (abstract). NCR 3 Pt6 54
- Aaron MR, The use of least squares in system design. T-CT 224 Dec 56
- Aaron MR and Segers RG, A necessary and sufficient condition for a bounded nondecreasing step response. (L) T-CT 226 Sep 58
- Aarons J, Antenna and receiver measurements by solar and cosmic noise. P 810 May 54
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- Abbas SA and Critchlow DL, Calculation of flux patterns in ferrite multipath structures. NCR 263 Pt4 53
- Abbott HW and Suran JJ, Temperature characteristics of the transfluxor. T-ED 113 Apr 57
- Abbott HW and Suran JJ, Multihole ferrite core configurations and applications. P 1081 Aug 57
- Abbond FL, The transistor and the circuit application engineer. T-BTR 51 Sep 58
- Abel F, See Adams GJ
- Abel RL, Mobile radio doesn't cost, it pays. T-VC 47 May 57
- Abel WG, deBettencourt JT, Chisholm JH and Roche JF, Investigations of scattering and multipath properties of ionospheric propagation at radio frequencies exceeding the MUF. P 1255 Oct 55
- Abhyankar S, Minimal sum of products of sums expressions of Boolean functions. T-EC 268 Dec 58
- Abraham RP, A wide-band transistor feedback amplifier. WCR 10 Pt2 57
- Abrahams IC, Choice of chrominance subcarrier frequency in the NTSC standards. P 79 Jan 54
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- Acheson MA, The unreliable universal component. T-RQC 49 Jan 57
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- Ađam HR, International planning of global communications for aviation. T-CS 67 Nov 54
- Adams E, See Hubbard WM
- Adams GD, Problems in dosimetry of X-radiation. WCR 7 Pt9 57
- Adams GJ, Alford A, Leach HH, Rubin R and Abel F, Antenna system for station WOR-TV channel 9, installed on the Empire State Building in New York City. NCR 65 Pt7 54
- Adams PH, Some problems associated with the charging of dry batteries. T-CP 76 Jun 58
- Adams RT, Magnetostriction resonators as circuit elements (abstract). NCR 38 Pt3 55
- Adams RT, Havstad H, Pollack L and Sichak W, A broad-band over-the-horizon link for Florida to Cuba. T-CS Jun 58
- Adams RT, New magnetostriction filters for the MF band. NCR 43 Pt9 57
- Adams RT and Mindes BM, Evaluation of IF and baseband diversity combining receivers. T-CS 8 Jun 58
- Adams RT and Mindes BM, Evaluation of IF and baseband diversity combining receivers (abstract). NCR 291 Pt8 58
- Adcock WA, Jones ME, Thornhill JW and Jackson ED, Silicon transistor. (L) P 1192 Jul 54
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- Adler R and Heuer C, Color decoder simplifications based on a beam deflection tube. T-BTR 64 Jan 54
- Adler R, Kromhout OM and Clavier PA, Resonant behavior of electron beams in periodically focused tubes for transverse signal fields. P 339 Mar 55
- Adler R, Kromhout OM and Clavier PA, Transverse-field traveling-wave tubes with periodic electrostatic focusing. P 82 Jan 56
- Adler R, Desmares P and Spracklen J, An ultrasonic remote control for home receivers. T-BTR 8 Jun 57
- Adler R, Parametric amplification of the fast electron wave. (L) P 1300 Jun 58
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- Adler RB and Haus HA, Network realization of optimum amplifier noise performance. T-CT 156 Sep 58
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- Aha R and Grace FC, A diode matrix vertical interval video switcher. T-BTS 11 Dec 56
- Aharoni A, Frei EH and Shtrikman S, The switching time of the cryotron. (L) P 780 Apr 58
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- Aiken WR, A thin cathode-ray tube. P 1599 Dec 57
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- Aiya SV, Atmospheric noise interference to short-wave broadcasting. P 580 Mar 58
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- Aldrich RW and Holonyak N, Multiterminal p-n-p-n switches. P 1236 Jun 58
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- Alford A and Leach HH, High gain antenna arrays for television broadcast transmission using a slotted ring antenna. NCR 87 Pt7 56
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- Alford A, See Adams GJ
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- Alman J, Phipps P and Wilson D, Circuit design employing a digital computer to attain longest mean time to failure. NCR 115 Pt4 57
- Alrich JC, Engineering description of the electro-data digital computer. T-EC 1 Mar 55
- Alsberg DA, Transistor metrology. T-EO 12 Aug 54
- Alsberg DA, 6-mc sweep oscillator. T-1 32 Oct 55
- Alstadter D and Houseman EO Jr, Some notes on strip transmission line and waveguide multiplexers. WCR 54 Pt1 58
- Altenpohl D, Improvements in the field of electrolytic capacitors. NCR 35 Pt3 54
- Altes SK and Stern AP, Single-gun picture tubes in NTSC color television. NCR 46 Pt7 54
- Altes SK, Determination of the optimum demodulation angles in color receivers. NCR 165 Pt7 55
- Altes SK, The optimum relative phosphor efficiencies. NCR 90 Pt3 56
- Altes SK, A synchronous detector using a harmonic pair switching wave. T-BTR 88 Mar 58
- Althaus EJ, Morrison SC and Tate WR, A method of testing and evaluation of complex missile systems. NCR 23 Pt11 54
- Altman FJ and Nail JJ, UHF diversity system for long-range ship-to-air communication. NCR 78 Pt8 54
- Altman FJ, Gray RE, Kandolan AG and Sichak W, 900-mc PTM over-the-horizon radio link. T-MTT 22 Dec 55
- Altman FJ and Sichak W, A simplified diversity communication system for beyond-the-horizon links. T-CS 50 Mar 56
- Altman JL, A technique for stabilizing microwave oscillators. T-MTT 16 Jul 54
- Altschuler HM and Oliner AA, Microwave measurements with a lossy variable short circuit (summary). NCR 113 Pt8 54
- Altschuler HM, A method of measuring dissipative four-poles based on a modified Wheeler network. T-MTT 30 Jan 55
- Altschuler HM and Oliner AA, A shunt technique for microwave measurements. T-MTT 24 Jul 55
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- Altschuler HM, Representation and measurement of a dissipative four-pole by means of a modified Wheeler network. T-1 84 Oct 55, T-MTT Jan 55
- Altschuler HM and Kahn WK, Nonreciprocal two-ports represented by modified Wheeler networks. T-MTT 228 Oct 56
- Altschuler HM, Nonreciprocal two-port measurement based on an averaging technique. (L) P 1293 Sep 57
- Amann J, Unionization of engineers—1. T-EM 113 Dec 57
- Anatnick E, Measurement of bioelectric potentials with microelectrodes and neutralized input capacity amplifiers. T-ME 3 Mar 58
- Amber GH, Resonance-probability and entropy-evolution relationships. (L) P 1962 Dec 58
- Amber GH and Amber PS, Operation research for computer control. (L) T-AC 122 Dec 53
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- Amemiya H, Analyses of drivers for single-ended push-pull stage. T-AU 162 Sep-Oct 55
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- Ames LA and Rogers TF, Available bandwidth in 200-mile VHF tropospheric propagation. (L) T-AP 217 Oct 55
- Ames LA, Martin EJ and Rogers TF, Long distance VHF-UHF tropospheric field strengths and certain of their implications for radio communications (abstract). T-CS 102 Mar 56
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- Amos B and Quirk C, Factors affecting the correlation of TV picture quality between field and laboratory signals. T-BTR 2 Apr 54
- Ancker CJ Jr, Airborne direction finding—the theory of navigation errors. T-ANE 199 Dec 58
- Ancker-Johnson B and Rowley JJ, Mixed gammas for non-reciprocal devices at low microwave frequencies. (L) P 1421 Jul 58
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- Anderson BH. See Herrick JF
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- Anderson DB, A microwave technique to reduce platform motion and scanning noise in airborne moving-target radar. WCR 202 Pt1 58
- Anderson EC, In vivo gamma measurements at very low levels with 4 liquid scintillation detectors. T-NS 96 Nov 56
- Anderson EC and Van Dilla MA, Low-level gamma ray detection in humans. T-NS 194 Dec 58
- Anderson EI, NTSC ad hoc committee on amateur-color TV interference. T-BTR 36 Apr 54
- Anderson GF, The AN/AKT-14 telemetry system: Part VI—PWM and FM/FM automatic data reduction with AKT-14 telemetering components. T-TRC 17 Mar 56
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- Anderson LJ and Gossard EE, Prediction of oceanic duct propagation from climatological data. T-AP 163 Oct 55
- Anderson LJ, Symposium on present and future uses of refractive index data for radio propagation purposes. (L) T-AP 147 Jan 57
- Anderson LJ and Trolse LG, Simplified method for computing knife edge diffraction in the shadow region. T-AP 281 Jul 58
- Anderson LJ. See Gossard EE
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- Andrejch P. See Thurston RN
- Andres RJ and Steele EL, A medium power silicon rectifier. WCR 73 Pt3 57
- Andrews AW, A study of present shipboard antenna systems and suggestions for their improvement and simplification. T-CS 47 Mar 55
- Angel AM, A very high speed punched paper tape reader. WCR 218 Pt4 57
- Angel KW, Vacuum-tube requirements in vertical-deflection circuits. T-BTR 3 Sep 58
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- Angulo CM, Diffraction of surface waves by a semi-infinite dielectric slab. T-AP 585 Jul 56
- Angulo CM, Discontinuities in a rectangular waveguide partially filled with dielectric. T-MTT 68 Jan 57
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