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INDEX TO WIRELESS ENGINEER ABSTRACTS AND REFERENCES

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This index to the Abstracts and References, published monthly in "Wireless Engineer" during 1954, is compiled on the same plan as for 1953, there being both Author and Subject Indexes. A list of the principal journals scanned for abstracting is included with the publishers' addresses.

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SYMBOLS (A) Abstract, (B) Book Review, (C) Note of Correction, (D) Discussion

AUTHOR INDEX A name followed by "and" is that of the first author of a jointly written paper, while the word "with" indicates that the name indexed is that of the second author.

Abbreviations used in the Abstracts and Index

a.c.	= alternating current	c.w.	= continuous wave
d.c.	= direct current	i.c.w.	} = modulated c.w.
h.v.	= high voltage	m.c.w.	
l.v.	= low voltage	s.w.*	= short wave
a.f.	= audio frequency	u.s.w.*	= ultra short wave
i.f.	= intermediate frequency	λ	= wavelength
r.f.	= radio frequency, including:—	c.r.	= cathode ray
l.f.	= low frequency, <300 kc/s	c.r.o.	= cathode ray oscilloscope
m.f.	= medium frequency, 300–3000 kc/s	d.f.	= direction finding
h.f.	= high frequency, 3–30 Mc/s	e.m.	= electromagnetic, <i>but</i>
v.h.f.	= very high frequency, 30–300 Mc/s	e.m.f.	= electromotive force
u.h.f.	= ultra high frequency, >300 Mc/s	e.s.	= electrostatic
a.m.	= amplitude modulation	a.f.c.	= automatic frequency control
f.m.	= frequency modulation	a.g.c.	= automatic gain control
p.m.	= pulse modulation, including:—	a.p.h.c.	= automatic phase control
p.a.m.	= pulse amplitude modulation	a.v.c.	= automatic volume control
p.c.m.	= pulse code modulation	m.u.f.	= maximum usable frequency
p.f.m.	= pulse frequency modulation	p.p.i.	= plan position indicator
p.ph.m.	= pulse phase modulation	s.s.b.	= single sideband
	<i>or</i>	d.s.b.	= double sideband
p.p.m.	= pulse position modulation	s.w.r.	= standing wave ratio
p.w.m.	= pulse width modulation	v.f.o.	= variable frequency oscillator
ph.m.	= phase modulation	R/T	= radiotelephony
v.m.	= velocity modulation	W/T	= wireless telegraphy
		TV	= television

*No clearly defined limits

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Amplifiers 621.375
Demodulation 621.376
Generators of electric oscillations and pulses 621.373
Modulation 621.376
Networks 621.372.4 .6
Pulse processes 621.374
Radar 621.396.96
Transmission-line theory 621.372.2
Waveguides 621.372.8

ERRATA

In "Abstracts and References" throughout the year

Abstract No.	1257	In title for 'Zirconium' read 'Zirconia'.
"	1289	For '631.395.625.3' read '621.395.625.3'.
"	1546	Change U.D.C. number to 621.396.11 : 551.510.535.
"	2132	For 'J. R. Johnson' read 'J. B. Johnson'.
"	2423	For 'R. N. Decker' read 'R. N. Dexter'.
"	2496	Change U.D.C. number to 621.396.11 : 551.510.535.
"	2749	Change U.D.C. number to 621.396.11 : 551.510.535.
"	2870	For 'L. Tourel' read 'L. Thourel'.
"	2990	For 'R. H. Pohl' read 'R. G. Pohl'.

LIST OF JOURNALS

A selection of the journals which are regularly scanned is given below, together with the addresses of their publishers or editorial offices and the abbreviations of their titles as used in the Abstracts and References. Applications for copies of any journal should be made to the addresses given.

The full title of each journal is given in bold type and is followed by the address, the abbreviated title being shown within brackets. In a few cases the nature of a journal is indicated, where neither the title nor the address shows it clearly.

Acta physica austriaca, Springer Verlag, Wien I, Molkerbastei 5, Austria. (*Acta phys. austriaca*)

Acta Polytechnica, Royal Swedish Academy of Engineering Sciences, Stockholm, Sweden. (*Acta polyt., Stockholm*)

Acustica, S. Hirzel Verlag, Gotthardstrasse 6, Zurich, Switzerland. (*Acustica*)

Advances in Physics, Taylor & Francis Ltd, Red Lion Court, Fleet Street, London, E.C.4, England. (*Advances Phys.*)

Akustische Beihefte, S. Hirzel Verlag, Gotthardstrasse 6, Zurich, Switzerland. (*Akust. Beihefte*)

Alta Frequenza, Associazione Elettrotecnica Italiana, Milano (202), Via S. Paolo 10, Italy. (*Alta Frequenza*)

Annalen der Physik, J. A. Barth, Leipzig C 1, Salomonstrasse 18B, Germany. (*Ann. Phys., Lpz.*)

Annales de Geophysique, Service des Publications du C.N.R.S., 45 rue d'Ulm, Paris 5^e, France. (*Ann. Geophys.*)

Annales de Physique, Masson & Cie, 120 Boulevard Saint-Germain, Paris 6^e, France. (*Ann. Phys., Paris*)

Annales de Radioelectricite, 10 rue Carducci, Paris 19^e, France. (*Ann. Radiodict.*)

Annales des Telecommunications, 3 & 5 Boulevard Pasteur, Paris 15^e, France. (*Ann. Telecommun.*)

Annali di Geofisica, Istituto Nazionale di Geofisica, Citta universitaria, Roma, Italy. (*Ann. Geofis.*)

Applied Scientific Research, Martinus Nijhoff, Lange Voorhout 9, The Hague Netherlands. (*Appl. sci. Res.*)

Archiv der elektrischen Ubertragung, S. Hirzel Verlag, Stuttgart, Germany. (*Arch. elekt. Ubertragung*)

Archiv fur Elektrotechnik, Springer Verlag, Heidelberg, Neuenheimer Landstrasse 24, Germany. (*Arch. Elektrotech.*)

Archiv fur Meteorologie Geophysik und Bioklimatologie, Series A, Springer Verlag, Wien I, Molkerbastei 5, Austria. (*Arch. Met., Wien*)

Archiv fur technisches Messen, R. Oldenbourg Verlag, Munchen, Lotzbeckstrasse 2b, Germany. (*Arch. tech. Messen*)

Arkiv for Fysik, published for Royal Swedish Academy of Sciences by Almqvist & Wiksells Boktryckeri A. B., Stockholm, Sweden. (*Ark. Fys.*)

A.T.E. Journal (incorporating Strowger Journal), Automatic Telephone & Electric Co., Strowger Works, Liverpool 7, England. (*A.T.E. J.*)

Audio (formerly **Audio Engineering**), 204 Front Street, Mineola, N.Y., U.S.A. (*Audio*)

Australian Journal of Applied Science, Commonwealth Scientific and Industrial Research Organization, 314 Albert Street, East Melbourne C.2, Australia. (*Aust. J. appl. Sci.*)

Australian Journal of Physics, Commonwealth Scientific and Industrial Research Organization, 314 Albert Street, East Melbourne C.2, Australia. (*Aust. J. Phys.*)

A.W.A. Technical Review, Amalgamated Wireless (Australasia) Ltd, Sydney, Australia. (*A.W.A. tech. Rev.*)

- B.B.C. Quarterly**, British Broadcasting Corporation, 35 Marylebone High Street, London, W.C.2, England. (*B.B.C. Quart.*)
- Beama Journal**, British Electrical and Allied Manufacturers' Association, 36 Kingsway, London, W.C.2, England. (*Beama J.*)
- Bell Laboratories Record**, 463 West Street, New York 14, N.Y., U.S.A. (*Bell Lab. Rec.*)
- Bell System Technical Journal**, American Telephone and Telegraph Company, 195 Broadway, New York 7, N.Y., U.S.A. (*Bell Syst. tech. J.*)
- British Journal of Applied Physics**, 47 Belgrave Square, London, S.W.1, England. (*Brit. J. appl. Phys.*)
- Brown Boveri Review**, Baden, Switzerland. (*Brown Boveri Rev.*)
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- Bulletin de la Société française des Electriciens**, 55 Quai des Grands-Augustins, Paris 6^e, France. (*Bull. Soc. franç. Élect.*)
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- Communications on Pure and Applied Mathematics**, Interscience Publishers Inc., 250 Fifth Avenue, New York 1, N.Y., U.S.A. (*Commun. pure appl. Math.*)
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- Comptes Rendus (Doklady) de l'Académie des Sciences de l'U.R.S.S.**, Academy of Sciences, Moscow, U.S.S.R. (In Russian.) (*C.R. Acad. Sci. U.R.S.S.*)
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- Electrical Engineering**, Journal of the American Institute of Electrical Engineers, 500 Fifth Avenue, New York 36, N.Y., U.S.A. (*Elect. Engng. N.Y.*)
- Electrical Journal**, Bouverie House, 154 Fleet Street, London, E.C.4, England. (*Elect. J.*)
- Electrical Manufacturing**, 1250 Sixth Avenue, New York 20, N.Y., U.S.A. (*Elect. Mfg.*)
- Electrical Times**, Sardinia House, Sardinia Street, London, W.C.2, England. (*Elect. Times*)
- Electronic Engineering**, 28 Essex Street, London, W.C.2, England. (*Electronic Engng.*)
- Electronics**, 99-129 North Broadway, Albany 1, N.Y., U.S.A. (*Electronics*)
- Elektrotechnik und Maschinenbau**, Journal of the Elektrotechnischer Verein Österreichs, Springer Verlag, Wien 1, Mülkerbastei 5, Austria. (*Elektrotech. u. Maschinenb.*)
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- Engineer**, 28 Essex Street, London, W.C.2, England. (*Engineer, Lond.*)
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- Ericsson Review**, Telefonaktiebolaget L. M. Ericsson, Stockholm 32, Sweden. (*Ericsson Rev.*)
- Fernmeldetechnische Zeitschrift**, Vieweg & Sohn, Braunschweig, Burgplatz 1, Germany. (*Fernmeldetech. Z.*)
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- Funk und Ton**, Verlag für Radio-Foto-Kinotechnik G.m.b.H., Berlin-Borsigwalde, Eichborndamm 141-167, Germany. (*Funk u. Ton*)
- G.E.C. Journal**, General Electric Company Ltd, Magnet House, Kingsway, London, W.C.2, England. (*G.E.C. J.*)
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- General Radio Experimenter**, General Radio Company, 275 Massachusetts Avenue, Cambridge 39, Mass., U.S.A. (*Gen. Radio Exp.*)
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- Journal of the Acoustical Society of America**, American Institute of Physics, 57 East 55th Street, New York 22, N.Y., U.S.A. (*J. acoust. Soc. Amer.*)
- Journal of Applied Physics**, American Institute of Physics, 57 East 55th Street, New York 22, N.Y., U.S.A. (*J. appl. Phys.*)
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- Journal of the Audio Engineering Society**, P.O. Box 12, Old Chelsea Station, New York 11, N.Y., U.S.A. (*J. audio Engng. Soc.*)
- Journal of the British Institution of Radio Engineers**, 9 Bedford Square, London, W.C.1, England. (*J. Brit. Instn Radio Engrs*)
- Journal of the Franklin Institute**, Benjamin Franklin Parkway at Twentieth Street, Philadelphia 3, Pa, U.S.A. (*J. Franklin Inst.*)
- Journal of Geomagnetism and Geoelectricity**, Society of Terrestrial Magnetism and Electricity of Japan, Geophysical Institute, Kyoto University, Kyoto, Japan. (*J. Geomag. Geoelect.*)
- Journal of Geophysical Research**, 5241 Broad Branch Road, N.W., Washington 15, D.C., U.S.A. (*J. geophys. Res.*)
- Journal of the Indian Institute of Science**, Indian Institute of Science, Bangalore 3, India. (*J. Indian Inst. Sci.*)
- Journal of the Institute of Navigation**, John Murray Ltd, 50 Albemarle Street, London, W.1, England. (*J. Inst. Nav.*)
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- Journal of Scientific Instruments**, 47 Belgrave Square, London, S.W.1, England. (*J. sci. Instrum.*)
- Journal of the Society of Motion Picture and Television Engineers**, 40 West 40th Street, New York 18, N.Y., U.S.A. (*J. Soc. Mot. Pict. Televis. Engrs*)
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- Metal Treatment**, 17-19 John Adam Street, Adelphi, London, W.C.2, England. (*Metal Treatm.*)
- Metallurgia**, 31 King Street West, Manchester 3, England. (*Metallurgia, Manchr*)
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- Nuovo Cimento**, Editore Nicola Zanichelli, Bologna, Via Irnerio 34, Italy. (*Nuovo Cim.*)
- Observatory**, Royal Observatory, Herstmonceux Castle, Hailsham, Sussex, England. (*Observatory*)
- Onde électrique**, 40 rue de Seine, Paris 6^e, France. (*Onde élect.*)
- Optik**, Wissenschaftliche Verlagsgesellschaft m.b.H., Stuttgart 1, Postfach 40, Germany. (*Optik, Stuttgart*)
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- Radio Technik**, Wien VI, Mariahilferstrasse 71, Austria. (*Radio Tech., Vienna*)
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- Revue d'Optique**, 3 & 5 Boulevard Pasteur, Paris 15^e, France. (*Rev. d'Optique*)
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- Ricerca scientifica**, Roma, Piazza della Libertà 10, Italy. (*Ricerca sci.*)
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- Science Reports of the Research Institutes Tohoku University**, Tohoku University, Sendai, Japan. (*Sci. Rep. Res. Inst. Tohoku Univ.*)
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- Tele-Tech**, Caldwell-Clements Inc., 480 Lexington Avenue, New York 17, N.Y., U.S.A. (*Tele-Tech*)
- Telefunken Zeitung**, Telefunken G.m.b.H., Berlin S.W.61, Mehringdanun 32-34, Germany. (*Telefunken Ztg*)
- Télévision**, 9 rue Jacob, Paris 6^e, France. (*Télévision*)
- Tellus**, Lindhagensgatan 124, Stockholm, Sweden. (*Tellus*)
- Tijdschrift van het Nederlands Radiogenootschap**, Frans van Mierisstraat 61, Amsterdam-Z., Netherlands. (*Tijdschr. ned. Radiogenoot.*)
- Toute la Radio**, 9 rue Jacob, Paris 6^e, France. (*Toute la Radio*)
- Transactions of the American Geophysical Union**, 1530 P Street, N.W., Washington 5, D.C., U.S.A. (*Trans. Amer. geophys. Union*)
- Transactions of the American Institute of Electrical Engineers**, 500 Fifth Avenue, New York 36, N.Y., U.S.A. (*Trans. Amer. Inst. elect. Engrs*)
- Transactions of the Institute of Radio Engineers**, 1 East 79th Street, New York 21, N.Y., U.S.A. (*Trans. Inst. Radio Engrs*)
- TSF et TV**, 40 rue de Seine, Paris 6^e, France. (*TSF et TV*)
- Le Vide**, Journal of the Société française des Ingénieurs Techniciens du Vide, 44 rue de Rennes, Paris 6^e, France. (*Le Vide*)
- Weather**, 49 Cromwell Road, London, S.W.7, England. (*Weather*)
- Wireless Engineer**, Dorset House, Stamford Street, London, S.E.1, England. (*Wireless Engr*)
- Wireless World**, (as for **Wireless Engineer**). (*Wireless World*)
- Zeitschrift für angewandte Mathematik und Physik**, Editions Birkhäuser, Bâle 10, Switzerland. (*Z. angew. Math. Phys.*)
- Zeitschrift für angewandte Physik**, Springer Verlag, Heidelberg, Neuenheimer Landstrasse 24, Germany. (*Z. angew. Phys.*)
- Zeitschrift für Meteorologie**, Akademieverlag G.m.b.H., Berlin N.W.7, Schiffbauerdamm 19, Germany. (*Z. Met.*)
- Zeitschrift für Naturforschung**, Tübingen, Mathildenstrasse 29, Germany. (*Z. Naturf.*)
- Zeitschrift für Physik**, Springer Verlag, Heidelberg, Neuenheimer Landstrasse 24, Germany. (*Z. Phys.*)
- Zhurnal eksperimentalnoi i teoreticheskoi Fiziki**, Academy of Sciences, Moscow, U.S.S.R. (*Zh. eksp. teor. Fiz.*)
- Zhurnal tekhnicheskoi Fiziki**, Academy of Sciences, Moscow U.S.S.R. (*Zh. tekhn. Fiz.*)

With this Index to Abstracts and References is included a title page for inclusion with the bound volume for 1954. When binding, it is suggested that the issues be broken down and assembled in the following order:- Title page; index to editorial (from December issue); all editorial pages together, in proper sequence; all abstracts pages together, in proper sequence; Index to Abstracts. This order has been found the most convenient.