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Oliner AA, Jackson DR (2007) Leaky-wave antennas. In: Volakis J (ed) Antenna engineering handbook, 4th edn. McGraw-Hill, New York Google Scholar. Patel AM, Grbic A (2007) A printed leaky-wave antenna with a sinusoidally modulated surface reactance.

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BOOK: Fine/ \$77.03 0070322910 ANTENNA ENGINEERING HANDBOOK 2nd Edition JOHNSON, Richard C.; JASIK, Henry; CRAWFORD, Harold B. McGRAW-HILL RYERSON, LIMITED, WHITBY, ON, CANADA 1984 2nd Edition Tall Thick D/j + H/c. Black Spine With Title In Light Blue Letters, Dust Jacket: Fine/, Slight Shelf, Edge And Corner Wear.

The gold-standard reference on the design and application of classic and modern antennas—fully updated to reflect the latest advances and technologies. This new edition of the “ bible of antenna engineering ” has been updated to provide start-to-finish coverage of the latest innovations in antenna design and application. You will find in-depth discussion of antennas used in modern communication systems, mobile and personal wireless technologies, satellites, radar deployments, flexible electronics, and other emerging technologies, including 5G, terahertz, and wearable electronics. Antenna Engineering Handbook, Fifth Edition, is bolstered by real-world examples, hundreds of illustrations, and an emphasis on the practical aspects of antennas. Featuring 60 chapters and contributions from more than 80 renowned experts, this acclaimed resource is edited by one of the world ’ s leading antenna authorities. This edition features all of the classic antenna types, plus new and emerging designs, with 13 all-new chapters and important updates to nearly all chapters from past editions. Antenna Engineering Handbook, Fifth Edition, clearly explains cutting-edge applications in WLANs, automotive systems, PDAs, and handheld devices, making it an indispensable companion for today ’ s antenna practitioners and developers. Coverage includes:

- Antenna basics and classic antennas
- Design approaches for antennas and arrays
- Wideband and multiband antennas
- Antennas for mobile devices and PDAs, automotive applications, and aircraft
- Base station and smart antennas
- Beamforming and 5G antennas
- Millimeter-wave and terahertz antennas
- Flexible, wearable, thin film, origami, dielectric, and on-chip antennas
- MIMO antennas and phased arrays
- Direction-finding and GPS antennas
- Active antennas
- Low-profile wideband antennas
- Nanoantennas
- Reflectors and other satellite and radio-telescope antennas
- Low-frequency, HF, VHF, UHF, ECM, and ESM antennas
- Impedance-matching techniques and material characteristics
- Metastructured and frequency selective surfaces
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This edition contains 21 new chapters and a bonus eight page color insert, and new material on specialty antennas such as wideband patch antennas, antenna arrays, smart antennas, and more.

Best engineer's reference on antennas. Table of Contents: Introduction to Antennas; Fundamentals of Antennas; Arrays of Discrete Elements; Dipoles and Monopoles; Loop Antennas; Small Antennas; Microstrip Antennas; Slot Antennas; Slot-Antenna Arrays; Leaky-Wave Antennas; Long-Wire Antennas; Surface-Wave Antennas and Surface-Wave Excited Arrays; Helical Antennas; Frequency-Independent Antennas; Horn Antennas; Lens Antennas; Reflector Antennas; Feeds for Lenses and Reflectors; Electromechanical Scanning Antennas; Frequency-Scan Antennas; Phased Arrays; Conformal and Low-Profile Arrays; Adaptive Antennas; Methods of Polarization Synthesis; Low-Frequency Antennas; Medium-Frequency Broadcast Antennas; High-Frequency Antennas; VHF and UHF Communications Antennas; and more. Index. 800 illustrations.

Newly revised & updated, this best-selling reference provides the essential principles, methods, & data needed to solve the engineering problems that arise in antenna design & application. An array of leading experts from RCA, Raytheon, Scientific-Atlantic, & other major firms makes it the most authoritative A-to-Z collection of state-of-the-art information available. Anyone involved with antennas will be an eager customer for this updated classic. Technicians will use it to better understand the antennas they work with. Beginning engineers will want its descriptive material & design data. Experienced engineers will use it as their primary source of design data. Senior engineers will use the Handbook to get up to speed on new antennas & applications. And design engineers will find ideas to solve new & difficult problems.

This book presents the fundamental background theory and analytical techniques of antenna design. It deals with a very wide range of antenna types, operating from very low frequencies to millimetre waves.

The most up-to-date, comprehensive treatment of classical and modern antennas and their related technologies. Modern Antenna Handbook represents the most current and complete thinking in the field of antennas. The handbook is edited by one of the most recognizable, prominent, and prolific authors, educators, and researchers on antennas and electromagnetics. Each chapter is authored by one or more leading international experts and includes coverage of current and future antenna-related technology. The information is of a practical nature and is intended to be useful for researchers as well as practicing engineers. From the fundamental parameters of antennas to antennas for mobile wireless communications and medical applications, Modern Antenna Handbook covers everything professional engineers, consultants, researchers, and students need to know about the recent developments and the future direction of this fast-paced field. In addition to antenna topics, the handbook also covers modern technologies such as metamaterials, microelectromechanical systems (MEMS), frequency selective surfaces (FSS), and radar cross sections (RCS) and their applications to antennas, while five chapters are devoted to advanced numerical/computational methods targeted primarily for the analysis and design of antennas.

This is an extensively revised and updated new edition of the best-selling Mobile Antenna Systems Handbook. Comprehensive, authoritative and practical, it provides the information you need to understand the relationship between the elements involved in antenna systems design for mobile communications. You get sound advice in choosing the appropriate antenna for any given requirement - including antennas for ITS, access to the latest modeling formulas for macro, micro and pico cell propagation, and guidance on the latest RF safety standards and

measurement techniques.

"This book addresses the recent significant theoretical and practical developments in the electrically small antenna area. It explains work on electromagnetically coupled structures, improving bandwidth using spherical helix dipoles, the exact derivation of the Q for electrically small antennas for both TE and TM modes, a new simplified Q formula developed by the authors, and provides an expanded discussion of metamaterials and computer model accuracy for ESA"--

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