

Where To Download Newnes Guide To Radio And Communications Technology

Newnes Guide To Radio And Communications Technology

Practical Transformer Handbook shows how a transformer can be put to use, common problems which a user will face, and which is the most appropriate in a particular situation. Anyone working with transformers will find this a valuable user guide. Theory and mathematics are kept to a minimum, and instead the everyday working of these devices is described. Practical Transformer Handbook covers transformers in electronic technology, control techniques, instrumentation, and other more unusual applications. In this practical book a wide range

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of devices, uses and problems are explored, from parametric transformers, transmission line RF transformers and Tesla coils to the effect of geomagnetic storms on power transformers and dealing with the ever-present third harmonic in iron core transformers. Irving Gottlieb is a leading author of many books for practising engineers, technicians and students of electronic and electrical engineering. Practical, concise and wide-ranging coverage Maths and theory kept to a minimum
Written for a wide professional market

Preface; Propagation of radio waves; The decibel scale; Transmission lines; Antennas; Resonant circuits; Oscillators; Piezo-electric devices; Bandwidth requirements and modulation; Frequency planning; Radio equipment;

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Microwave communication; Information privacy and encryption; Multiplexing; Speech digitization and synthesis; VHF and UHF mobile communication; Signalling; Mobile radio systems; Base station site management; Instrumentation; Batteries; Satellite communications; Connectors and interfaces; Broadcasting; Abbreviations and symbols; Miscellaneous data; Index.

Finally, here is a single volume containing all of the engineering information needed to successfully design and implement any type of wireless network! Author Dan Dobkin covers every aspect of RF engineering necessary for wireless networks. He begins with a review of essential math and electromagnetic theory followed by thorough discussions of

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multiplexing, modulation types, bandwidth, link budgets, network concepts, radio system architectures, RF amplifiers, mixers and frequency conversion, filters, single-chip radio systems, antenna theory and designs, signal propagation, as well as planning and implementing wireless networks for both indoor and outdoor environments. The appendices contain such vital data as U.S., European, and Japanese technical and regulatory standards for wireless networks, measurements in wireless networks, reflection and matching of transmission lines, determining power density, and much more. No matter what type of wireless network you design—Bluetooth, UWB, or even metropolitan area network (MAN)—this book is the one reference you can't do without! The A-to-Z guide to wireless

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network engineering—covers everything from basic electromagnetic theory to modulation techniques to network planning and implementation! Engineering and design principles covered are applicable to any type of wireless network, including 802.11, 802.16, 802.20, and Bluetooth. Discusses state-of-the-art modulation techniques such as ultra wideband (UWB) and orthogonal frequency-division multiplexing (OFDM).

Antenna Toolkit

Newnes Guide to TV and Video Technology

A Beginner's Guide to Radio, Etc. (Fourth Edition.).

Newnes Guide to Satellite TV

UHF RFID in Practice

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Understand the RF and Digital Signal Processing Principles Driving Software-defined Radios! Software-defined radio (SDR) technology is a configurable, low cost, and power efficient solution for multimode and multistandard wireless designs. This book describes software-defined radio concepts and design principles from the perspective of RF and digital signal processing as performed within this system. After an introductory overview of essential SDR concepts, this book examines signal modulation techniques, RF and digital system analysis and requirements, Nyquist and oversampled data conversion

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techniques, and multirate digital signal processing.. KEY TOPICS •Modulation techniques Master analog and digital modulation schemes •RF system-design parameters Examine noise and link budget analysis and Non-linear signal analysis and design methodology •Essentials of baseband and bandpass sampling and gain control IF sampling architecture compared to traditional quadrature sampling, Nyquist zones, automatic gain control, and filtering •Nyquist sampling converter architectures Analysis and design of various Nyquist data converters •Oversampled data converter architectures

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Analysis and design of continuous-time and discrete-time Delta-Sigma converters

- Multirate signal processing Gain knowledge of interpolation, decimation, and fractional data rate conversion
- *Offers readers a powerful set of analytical and design tools
- *Details real world designs
- *Comprehensive coverage makes this a must have in the RF/Wireless industry

This book explains how UHF tags and readers communicate wirelessly. It gives an understanding of what limits the read range of a tag, how to increase it (and why that might result in breaking the law), and the

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practical things that need to be addressed when designing and implementing RFID technology. Avoiding heavy math but giving breadth of coverage with the right amount of detail, it is an ideal introduction to radio communications for engineers who need insight into how tags and readers work. New to this edition:

- Examples of near-metal antenna techniques
- Discussion of the wakeup challenge for battery-assisted tags, with a BAT architecture example
- Latest development of protocols: EPC Gen 1.2.0
- Update 18000-6 discussion with battery-assisted tags, sensor tags, Manchester tags and wakeup provisions

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Named a 2012 Notable Computer Book for Computer Systems Organization by Computing Reviews The only book to give an understanding of radio communications, the underlying technology for radio frequency identification (RFID) Praised for its readability and clarity, it balances breadth and depth of coverage New edition includes latest developments in chip technology, antennas and protocols

Preface; Radio Technology; Line of Sight Microwave Systems; Satellite Systems; Reliability and Availability; Infrastructure Requirements for Master Sites and RTUs;

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Integrating Telemetry Systems into Existing Radio Systems; Miscellaneous Telemetry Systems; Practical System Examples; Future Trends in Technology; Appendix A: Glossary of Terms; Appendix B: Path Loss Calculation Formula; Appendix C: Data Sheets; Appendix D: Local Services, Regulations and Standards.
Wireless and Telecommunication Technology
Wireless Networking Technology
Practical Transformer Handbook
Handbook of RF and Wireless Technologies
Radio and Electronics Cookbook

The aim of this handbook is to provide basic electrical principles of radio transmission methods and simple

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receivers. The emphasis is on practical receiver designs and how to build and modify them. The use of sets is also covered, discussing various bands, propagation and QSLing of stations.

As the demand for higher bandwidth has lead to the development of increasingly complex wireless technologies, an understanding of both wireless networking technologies and radio frequency (RF) principles is essential for implementing high performance and cost effective wireless networks. Wireless Networking Technology clearly explains the latest wireless technologies, covering all scales of wireless networking from personal (PAN) through local area (LAN) to metropolitan (MAN). Building on a

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comprehensive review of the underlying technologies, this practical guide contains 'how to' implementation information, including a case study that looks at the specific requirements for a voice over wireless LAN application. This invaluable resource will give engineers and managers all the necessary knowledge to design, implement and operate high performance wireless networks. · Explore in detail wireless networking technologies and understand the concepts behind RF propagation. · Gain the knowledge and skills required to install, use and troubleshoot wireless networks. · Learn how to address the problems involved in implementing a wireless network, including the impact of signal propagation on

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operating range, equipment inter-operability problems and many more. · Maximise the efficiency and security of your wireless network.

Based on the popular Artech House classic, Digital Communication Systems Engineering with Software-Defined Radio, this book provides a practical approach to quickly learning the software-defined radio (SDR) concepts needed for work in the field. This up-to-date volume guides readers on how to quickly prototype wireless designs using SDR for real-world testing and experimentation. This book explores advanced wireless communication techniques such as OFDM, LTE, WLA, and hardware targeting. Readers will gain an understanding of the core concepts

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behind wireless hardware, such as the radio frequency front-end, analog-to-digital and digital-to-analog converters, as well as various processing technologies. Moreover, this volume includes chapters on timing estimation, matched filtering, frame synchronization message decoding, and source coding. The orthogonal frequency division multiplexing is explained and details about HDL code generation and deployment are provided. The book concludes with coverage of the WLAN toolbox with OFDM beacon reception and the LTE toolbox with downlink reception. Multiple case studies are provided throughout the book. Both MATLAB and Simulink source code are included to assist readers with their

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projects in the field.

The Guide for the Digital Age - from HDTV, DVD and flat-screen technologies to Multimedia Broadcasting, Mobile TV and Blu Ray

Practical Radio Engineering and Telemetry for Industry

Newnes Radio and RF Engineering Pocket Book

A Multi-Standard Multi-Mode Approach

RFID

Foundations of Wireless and Electronics, 10th Edition covers the cathode-ray and microwave tubes; modern pulse methods; f.m. detectors; basic processes of transmission; and reception, computers, and non-sinusoidal signal amplification. The book starts by giving a general overview of a complete electronic system,

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electricity and circuits, capacitance, and inductance. The text also discusses alternating currents (a.c.), including the frequency and phase of a.c.; the capacitance and inductance in a.c. circuits; and the capacitance and inductance in a series. Diodes, triode, transistor equivalent circuits, and a suitable working point are also considered. The book describes oscillation, transmission lines, radiation and antennas, and audio-frequency amplification. The super heterodyne principle, radio- and intermediate-frequency amplification, electronic waveform generators, and switches are also encompassed. The text will be useful to electronics engineers, electricians, and computer engineers.

Newnes Guide to TV and Video Technology is a guide to TV and video technology and covers topics ranging from transmission and reception to color decoding, magnetic tape basics and video

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signals, and signal processing. Tips on care, operation, and maintenance of videotape recorders are given. Block diagrams are used throughout the book. Comprised of 21 chapters, this book begins with an overview of the basic principles of monochrome television, followed by a discussion on the light and color aspects of TV. The reader is then introduced to assembling a color TV outfit by triplicating the "basic" television system and assigning one primary color to each of the three; the principle of chroma encoding and the method of "dovetailing" the chroma and Y signals; transmission and reception; color decoding; and color display devices. VTR principles and circuits are explained in general terms, taking examples from all home formats to illustrate the techniques used. This monograph is aimed at interested laymen, students, and technicians and those in allied fields seeking an

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insight into the technicalities of TV and VTR practice.

All the design and development inspiration and direction a hardware engineer needs in one blockbuster book! Janine Love site editor, RF Design Line, columnist, and author has selected the very best design material from the Newnes portfolio and has compiled it in this volume. The result is a book covering the gamut of RF from design from antenna and filter design fundamentals to optimized layout techniques with a strong pragmatic emphasis. In addition to specific design techniques and practices, this book also discusses various approaches to solving RF front end design problems and how to successfully apply theory to actual design tasks. The material has been selected for its timelessness as well as for its relevance to contemporary RF front end design issues. Contents: Chapter 1 Radio waves and propagation Chapter 2 RF Front End

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Design Chapter 3 Radio Transmission Fundamentals Chapter 4
Advanced Architectures Chapter 5 RF Power Amplifiers Chapter
RF Amplifiers CHAPTER 7 Basics of PA Design Chapter 8 Power
Amplifiers Chapter 9 RF/IF Circuits Chapter 10 Filters Chapter 1
Transmission Lines and PCBs as Filters Chapter 12 Tuning and
Matching Chapter 13 Impedance Matching Chapter 14 RF Powe
Linearization Techniques *Hand-picked content selected by Janir
Love, RF DesignLine site editor and author *Proven best design
practices for antennas, filters, and layout *Case histories and
design examples get you off and running on your current projec
Newnes Guide to Digital TV
Readers' Guide to Books on Radio, Radar, Television and Sound
Reproduction
Newnes Short Wave Listening Handbook

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Newnes Guide to Television and Video Technology

Valve Radio and Audio Repair Handbook

Joe Carr has provided radio amateurs and short-wave listeners with the definitive design guide for sending and receiving radio signals with Antenna Toolkit 2nd edition. Together with the powerful suite of CD software, the reader will have a complete solution for constructing or using an antenna - bar the actual hardware! The software provides a simple Windows-based aid to carrying out the design calculations at the heart of successful antenna design. All the user needs to do is select the antenna type and set the frequency - a much more fun and less error prone method than using a

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conventional calculator to solve formulae. The new edition has been revised to include further cases of propagation, additional antennas and also two new chapters - Small Loop Antennas (a topic of considerable interest, which has been the subject of much recent debate in the amateur radio press); and Yagi Beam Antennas (widely used at HF and VHF). The CD software has also been updated. Joe Carr's expertise in the area of antenna design is legendary. Antenna designers, whether hobbyist or technician, can be assured they need look no further than Antenna Toolkit for the complete guide to understanding the practicalities of using and designing antennas today. A complete

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solution for antenna design in one package. Includes free CD-ROM with state of the art software for all design calculations. The definitive guide to antenna design for radio amateurs and short-wave listeners.

Electronics basics as you work through the book.

The Newnes Know It All Series takes the best of what our authors have written to create hard-working desk references that will be an engineer's first port of call for key information, design techniques and rules of thumb.

Guaranteed not to gather dust on a shelf! RF (radio frequency) and wireless technologies drive communication today. This technology and its applications enable wireless phones, portable device

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roaming, and short-range industrial and commercial application communication such as the supply chain management wonder, RFID. Up-to-date information regarding software defined RF, using frequencies smarter, and, using more of the spectrum, with ultrawideband technology is detailed. Chapter 1: Survey of RF and Wireless Technology Chapter 2: Communications Protocols and Modulation Chapter 3: Transmitters Chapter 4: Receivers Chapter 5: Radio Propagation Chapter 6: Antenna Fundamentals I Chapter 7: Antenna Fundamentals II. Chapter 8: Basics of Wireless Local Area Networks Chapter 9: Outdoor Networks. Chapter 10: Voice Over Wi-Fi and Other

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Wireless Technologies Chapter 11: Security in Wireless Local Area Networks Chapter 12: System Planning Chapter 13: System Implementation, Testing, and Optimization Chapter 14: Next Generation Wireless Networks Chapter 15: Mobile Ad Hoc Networks Chapter 16: Wireless Sensor Networks Chapter 17: Reliable Wireless Networks for Industrial Networks Chapter 18: Software-Defined Radio Chapter 19: The Basics of Radio Frequency Identification (RFID) Technology Chapter 20: UWB Spectrum and Regulation Chapter 21: Interference and Coexistence Chapter 22: Direct Sequence UWB Chapter 23: "Multiband Approach to UWB Chapter 24: History and Background of Cognitive

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Radio Chapter 25: The Software Defined Radio as a Platform for Cognitive Radio Chapter 26: Cognitive Radio: The Technologies Chapter 27: Spectrum Awareness Chapter 28: Direct Sequence and Frequency Hopping Spread Spectrum Chapter 29: RF Power Amplifiers Chapter 30: Phase Locked Loop Techniques in Modern Communications Systems Chapter 31 Orthogonal Frequency Division Multiplexing (OFDM) *A 360 degree view from best-selling authors including Roberto Aiello, Bruce Fette, and Praphul Chandra *Hot topics covered including ultrawideband and cognitive radio technologies *The ultimate hard-working desk reference: all the essential information, techniques, and

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tricks of the trade in one volume

RF Front-End: World Class Designs

RF & Wireless Technologies

Foundations of Wireless and Electronics

A Beginner's Guide to Radio, Etc. (Second Edition.).

The RF in RFID

This book provides an introduction to RFID technology. It describes and addresses the following: How RFID works, how it is and can be used in current and future applications. The History of RFID technology, the current state of practice and where RFID is expected to be taken in the future. The role of middleware software to route data between

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the RFID network and the information technology systems within an organization. Commercial and government use of RFID technology with an emphasis on a wide range of applications including retail and consumer packaging, transportation and distribution of products, industrial and manufacturing operations, security and access control. Industry standards and the regulatory compliance environment and finally, the privacy issues faced by the public and industry regarding the deployment of RFID technology.

In this brand new volume, Ian Poole begins with a fine introduction to radio, suitable for almost all

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readers. ...the book is an excellent way for neophytes to step into radio and learn something about it. It begins with the basics and gradually brings in more advanced concepts. We recommend it as an additon to the technical libraries of intermediate-level technical readers. It is an interesting read even for the advanced engineer. - QEX July/August 2004 Ian Poole has written a fascinating guide to the technology and applications of modern radio and communications equipment. His approach provides a useful foundation for college students and technicians seeking an update on the latest technology, but each topic is

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introduced from the basics, ensuring that the book is equally rewarding for managers in the communications industry, sales staff, and anyone seeking to update their knowledge of this exciting and rapidly expanding area of technology. The key areas covered by this book are: Radio principles Broadcasting, including Digital Radio Private mobile radio, (PMR) including trunking and TETRA Cellular telecommunications, including GSM and 3G Data communications, including Bluetooth and 802.11 As well as a survey of established and cutting-edge technologies the underpinning science and electronics is introduced. *Includes a survey of

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established and cutting-edge communication technologies *Introduces the underpinning science and electronics of the subject *Provides an emphasis on circuits and how they work

The Technician's Radio Receiver Handbook is an invaluable tool for anyone involved in the technologies of wireless, cellular telephone, telecommunications, avionics, and other forms of electronic communication using radio waves. The market demand for and use of wireless and telecommunication technology has increased dramatically over the past decade, leaving many technicians and other communications

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professionals with the need for accurate information on how the newest equipment works and how to fix any problems that arise. Joe Carr, a notable author in the amateur radio and communications markets, explains both the new and old technologies, the science behind the scenes, as well as troubleshooting techniques not found in any other book. The book will also have a companion website including helpful calculation software, customizable spreadsheets, and much more. Written for technicians and hands-on practitioners in clear, easy-to-read text with many detailed illustrations Contains information on cutting-edge receiver equipment as

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well as the most popular types used today in a variety of markets Destined to be a constant reference and superb training guide for anyone interested in communications technology for Electronics, Radio and Communications Engineers

Beginner's Guide to Amateur Radio

**The Technician's Radio Receiver Handbook
Installation, Reception and Repair**

A Beginner's Guide to Radio Control

Includes bibliographical references and index.

Valve Radio and Audio Repair Handbook is not only an essential read for every professional working with antique radio and

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gramophone equipment, but also dealers, collectors and valve technology enthusiasts the world over. The emphasis is firmly on the practicalities of repairing and restoring, so technical content is kept to a minimum, and always explained in a way that can be followed by readers with no background in electronics. Those who have a good grounding in electronics, but wish to learn more about the practical aspects, will benefit from the emphasis given to hands-on repair work, covering mechanical as well as electrical aspects of servicing. Repair techniques are also illustrated throughout. This book is an expanded and updated version of Chas Miller's classic Practical Handbook of Valve Radio Repair. Full coverage of valve amplifiers will add to its appeal to all audio enthusiasts who appreciate the sound quality of valve equipment. A practical manual for collectors, owners, dealers and service engineers

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Essential information for all radio and audio enthusiasts Valve technology is a hot topic

This book provides a full and comprehensive coverage of video and television technology including the latest developments in display equipment, HDTV and DVD. Starting with TV fundamentals, the bulk of the book covers the many new technologies that are bringing growth to the TV and video market, such as plasma and LCD, DLP (digital light processing), DVD, Blu ray technology, Digital television, High Definition television (HDTV) and video projection systems. For each technology, a full explanation is provided of its operation and practical application, supported by over 300 diagrams including schematic diagrams of commercially available consumer equipment. Where relevant, testing and fault finding procedures are outlined together with

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*typical fault symptoms supported by photographs. The new edition has a number of useful appendices on microcomputer/microcontroller systems, test instruments, serial buses (I2C and RS 232), teletext and error correction techniques. The book is intended for students of electronics and practicing engineers. In particular, it will useful for students on vocational courses and service engineers as well as enthusiasts. * The definitive guide to the new technologies transforming the world of television: HDTV, Digital TV, DVD recorders, hard disk recorders, wide-screen CRT, flat screen technologies and others * A practical approach, including troubleshooting and servicing information * Covers UK, European and North American systems RF and Digital Signal Processing for Software-Defined Radio Newnes Audio and Hi-Fi Engineer's Pocket Book*

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A Guide to Radio Frequency Identification

Software-Defined Radio for Engineers

From Principles to Successful Implementation

Introduction -- Foundations of television -- Digital video and audio coding -- Digital signal processing -- Video data compression -- Audio data compression -- Digital audio production -- Digital video production -- The MPEG multiplex -- Broadcasting digital video -- Consumer digital technology -- The future.

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This accessible guide to TV technology and the digital revolution includes full coverage of analogue systems (terrestrial, satellite and cable). Expert contributors drawn from the ranks of academia and industry have authored chapters in such areas as third-generation wireless, wireless sensor networks, RF power amplifiers, spread spectrum modulation, signal propagation, antennas, and other key subjects that engineers working in RF

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and wireless need to be familiar with. This is far more than just a tutorial or reference guide—it is a "guided tour" through the world of cutting-edge RF and wireless design, combining theory, applications, and philosophies behind the RF/wireless design process. The multiple and sometimes overlapping chapters reiterate and emphasize the fundamentals in the context of different types of wireless applications. Here are just a few

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benefits that readers will gain from reading this book: *A refresher and update of wireless principles and techniques. *Information about the latest (and forthcoming) RF and wireless circuits, products and systems. *Guidelines, approaches, and techniques to RF/wireless design. *Examples of typical applications with an emphasis on real-world situations including existing and forthcoming new components and integrated circuits.

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***Coverage of new and emerging wireless topics heretofore not widely covered in print (e.g. UWB, RFID, IR, etc.) * A comprehensive survey of current RF and wireless engineering practice * Heavy emphasis on practical applications and design guidelines * Multiple contributors assure a wide range of perspectives and avoids individual bias**

An Elementary Course in 27 Lessons
RF Engineering for Wireless Networks
A Guide to Amateur Radio

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Hardware, Antennas, and Propagation An Elementary Course in 28 Lessons

Newnes Audio and Hi-Fi Engineer's Pocket Book, Second Edition provides concise discussion of several audio topics. The book is comprised of 10 chapters that cover different audio equipment. The coverage of the text includes microphones, gramophones, compact discs, and tape recorders. The book also covers high-quality radio, amplifiers, and loudspeakers. The book then reviews the concepts of sound and acoustics, and presents some facts and formulas relevant to audio. The text will be useful to sound engineers and other professionals whose work involves sound systems.

Newnes Guide to Satellite TV

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Beginner's Guide to Radio

Newnes Guide to Radio and Communications Technology

A Beginner's Guide to Radio

An Elementary Course in 28 Lessons

Practical Radio-frequency Handbook