

# Easy Touch 4 Manual Vboost

Extensively revised and expanded to present the state-of-the-art in the field of magnetic design, this third edition presents a practical approach to transformer and inductor design and covers extensively essential topics such as the area product,  $A_p$ , and core geometry,  $K_g$ . The book provides complete information on magnetic materials and core characteristics using step-by-step design examples and presents all the key components for the design of lightweight, high-frequency aerospace transformers or low-frequency commercial transformers. Written by a specialist with more than 47 years of experience in the field, this volume covers magnetic design theory with all of the relevant formulas.

(Book). There's a huge amount of hype and mythology surrounding tube amplifiers in the guitar world. For years, experts have argued over the tiny details of exactly how they do what they do, and how their various components interact. What's undeniable is that, far more than being just a "loudness booster," the unique combination of tubes, capacitors, resistors, and transformers in these amps can contribute enormously to the quality of sound derived from any electric guitar. In this thorough and authoritative book, Dave Hunter cuts through the marketing hyperbole, and the blind faith, and supplies all the information you need to choose the right amp, and get the best from it. The book also features exclusively conducted, in-depth interviews with leading figures in the tube amp-building world including Ken Fischer, Mark Sampson, and Michael Zaitz and even provides full instructions on how to construct your own high-quality tube guitar amp from scratch.

Power electronics, which is a rapidly growing area in terms of research and applications, uses modern electronics

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technology to convert electric power from one form to another, such as ac-dc, dc-dc, dc-ac, and ac-ac with a variable output magnitude and frequency. Power electronics has many applications in our every day life such as air-conditioners, electric cars, sub-way trains, motor drives, renewable energy sources and power supplies for computers. This book covers all aspects of switching devices, converter circuit topologies, control techniques, analytical methods and some examples of their applications. \* 25% new content \* Reorganized and revised into 8 sections comprising 43 chapters \* Coverage of numerous applications, including uninterruptable power supplies and automotive electrical systems \* New content in power generation and distribution, including solar power, fuel cells, wind turbines, and flexible transmission

Chapter 1: The Principles of Switching Power Conversion  
Chapter 2: DC-DC Converter Design and Magnetics  
Chapter 3: Off-line Converter Design and Magnetics  
Chapter 4: The Topology FAQ  
Chapter 5: Optimal Core Selection  
Chapter 6: Component Ratings, Stresses, Reliability and Life  
Chapter 7: Optimal Power Components Selection  
Chapter 8: Conduction and Switching Losses  
Chapter 9: Discovering New Topologies  
Chapter 10: Printed Circuit Board Layout  
Chapter 11: Thermal Management  
Chapter 12: Feedback Loop Analysis and Stability  
Chapter 13: Paralleling, Interleaving and Sharing  
Chapter 14: The Front-End of AC-DC Power Supplies  
Chapter 15: DM and CM Noise in Switching Power Supplies  
Chapter 16: Fixing EMI across the Board  
Chapter 17: Input Capacitor and Stability  
Chapter 18: The Math behind the Electromagnetic Puzzle  
Chapter 19: Solved Examples  
Appendix A.

An essential and compelling exploration of the design, history, and culture of the motorcycle - an icon of the machine age  
Motorcycles are ubiquitous in the world's streets and

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cities, evolving over decades in engineering and design to meet individual transportation needs. With the coming demise of the internal combustion engine and the rise of electricpowered vehicles, motorcycle design is being revolutionized by new technologies, the demands of climate change, and global social transformation. The Motorcycle: Desire, Art, Design traces the exciting evolution of this automotive icon -- and the culture of desire, freedom, and rebellion that surrounds it.

This book provides glimpses into contemporary research in information systems & technology, learning, artificial intelligence (AI), machine learning, and security and how it applies to the real world, but the ideas presented also span the domains of telehealth, computer vision, the role and use of mobile devices, brain-computer interfaces, virtual reality, language and image processing and big data analytics and applications. Great research arises from asking pertinent research questions. This book reveals some of the authors' "beautiful questions" and how they develop the subsequent "what if" and "how" questions, offering readers food for thought and whetting their appetite for further research by the same authors.

Harness Powerful SPICE Simulation and Design Tools to Develop Cutting-Edge Switch-Mode Power Supplies Switch-Mode Power Supplies: SPICE Simulations and Practical Designs is a comprehensive resource on using SPICE as a power conversion design companion. This book uniquely bridges analysis and market reality to teach the development and marketing of state-of-the art switching converters. Invaluable to both the graduating student and the experienced design engineer, this guide explains how to derive founding equations of the most popular converters...design safe, reliable converters through numerous practical examples...and utilize SPICE simulations

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to virtually breadboard a converter on the PC before using the soldering iron. Filled with more than 600 illustrations, Switch-Mode Power Supplies: SPICE Simulations and Practical Designs enables you to: Derive founding equations of popular converters Understand and implement loop control via the book-exclusive small-signal models Design safe, reliable converters through practical examples Use SPICE simulations to virtually breadboard a converter on the PC Access design spreadsheets and simulation templates on the accompanying CD-ROM, with numerous examples running on OrCAD<sup>®</sup>, ICAPS<sup>®</sup>, ?Cap<sup>®</sup>, TINA<sup>®</sup>, and more Inside This Powerful SPICE Simulation and Design Resource •

Introduction to Power Conversion • Small-Signal Modeling • Feedback and Control Loops • Basic Blocks and Generic Models • Simulation and Design of Nonisolated Converters • Simulation and Design of Isolated Converters-Front-End Rectification and Power Factor Correction • Simulation and Design of Isolated Converters-The Flyback • Simulation and Design of Isolated Converters-The Forward

Shipboard Propulsion, Power Electronics, and Ocean Energy fills the need for a comprehensive book that covers modern shipboard propulsion and the power electronics and ocean energy technologies that drive it. With a breadth and depth not found in other books, it examines the power electronics systems for ship propulsion and for extracting ocean energy, which are mirror images of each other. Comprised of sixteen chapters, the book is divided into four parts: Power Electronics and Motor Drives explains basic power electronics converters and variable-frequency drives, cooling methods, and quality of power Electric Propulsion Technologies focuses on the electric propulsion of ships using recently developed permanent magnet and superconducting motors, as well as hybrid propulsion using fuel cell, photovoltaic, and wind power Renewable Ocean Energy Technologies explores

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renewable ocean energy from waves, marine currents, and offshore wind farms System Integration Aspects discusses two aspects—energy storage and system reliability—that are essential for any large-scale power system This timely book evolved from the author’s 30 years of work experience at General Electric, Lockheed Martin, and Westinghouse Electric and 15 years of teaching at the U.S. Merchant Marine Academy. As a textbook, it is ideal for an elective course at marine and naval academies with engineering programs. It is also a valuable reference for commercial and military shipbuilders, port operators, renewable ocean energy developers, classification societies, machinery and equipment manufacturers, researchers, and others interested in modern shipboard power and propulsion systems. The information provided herein does not necessarily represent the view of the U.S. Merchant Marine Academy or the U.S. Department of Transportation. This book is a companion to Shipboard Electrical Power Systems (CRC Press, 2011), by the same author.

This is an introductory text in astronautics. It contains historical background and a discussion of space missions, space environment, orbits, atmospheric entry, spacecraft design, spacecraft subsystems, and space operations. It features section reviews summarizing key concepts, terms, and equations, and is extensively illustrated with many photos, figures, and examples Space law, politics, and economics This is a truly user-friendly, full-color text focused on understanding concepts and practical applications but written in a down-to-earth, engaging manner that painlessly helps you

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understand complex topics. It is laid out with multi-color highlights for key terms and ideas, reinforced with detailed example problems, and supported by detailed section reviews summarizing key concepts, terms, and equations.

This book contains all the topics of importance to the low power designer. It first lays the foundation and then goes on to detail the design process. The book also discusses such special topics as power management and modal design, ultra low power, and low power design methodology and flows. In addition, coverage includes projections of the future and case studies.

Highly Commended, BMA Medical Book Awards 2014  
The fifth edition of this highly successful and well-regarded book continues to provide those working in neonatal intensive care units with precise instructions on the diagnosis and management of common neonatal problems. This edition has been extensively updated and revised, while retaining the backgro

Preliminary results of Apollo 16 investigations.

Help current and future technicians gain a thorough understanding of today's electronic variable speed drives with this one-of-a-kind practical guide.

**ELECTRONIC VARIABLE SPEED DRIVES, 4E** provides the information essential for mastering DC and inverter drive technology. Using a logical structure, this book introduces fundamental drive

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circuits before presenting more complex drive circuits. This new edition highlights the most current technology advances for drives. The authors use their extensive industry and teaching experience to present theory in a clear, straightforward manner with an emphasis on both troubleshooting and maintenance. New hands-on activities in this edition provide additional practice using the Allen-Bradley PowerFlex 70 while numerous waveform schematics guide readers through operating different types of drives and interpreting their circuitry. Specific chapters focus on digital regenerative DC drives and frequency inverters as well as mechanical and electrical installation, set-up, tuning, programming, operating, and troubleshooting of each drive. Depend on this concise, yet thorough, book to present the information professional technicians need for success. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Most introductory books about computers are long, detailed technical books such as those used in a computer science course or else tutorials that provide instructions on how to operate a computer with little description of what happens inside the machine. This book fits in the large gap between these two extremes. It is for people who would like to understand how computers work, without having to

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learn a lot of technical details. Only the most important things about computers are covered. There is no math except some simple arithmetic. The only prerequisite is knowing how to use a web browser. As an alternative or adjunct to reading the book, you can watch a series of short videos by going to [youtube.com](https://www.youtube.com) and searching for “Understanding Computers, Smartphones and the Internet”. Only current day technology is covered. People who are interested in learning about how computers evolved from the earliest machines can read the companion book “A Concise History of Computers, Smartphones and the Internet”. While originally intended for people who are not in the computer field, this book is also useful for those taking a coding course or an introductory computer science course. Even people already in the computer field will find things of interest in this book. This two-volume set comprises a collection of 350 peer-reviewed papers which cover the latest advances in, and applications of, computer numerical control systems, operations planning, geometric dimensioning and tolerancing, quality systems, basic machine-tool elements, process automation, operator-machine systems, cost estimating, metrology and testing, and many similar topics.

This book constitutes the refereed proceedings of the International Conference on Image and Video



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Retrieval, CIVR 2002, held in London, UK, in July 2002. The 30 revised full papers presented together with an introduction by the volume editors were carefully reviewed and selected from 82 submissions. The papers are organized in topical sections on image retrieval, modeling, feature-based retrieval, semantics and learning, video retrieval, and evaluation and benchmarking.

Take the "black magic" out of switching power supplies with Practical Switching Power Supply Design! This is a comprehensive "hands-on" guide to the theory behind, and design of, PWM and resonant switching supplies. You'll find information on switching supply operation and selecting an appropriate topology for your application. There's extensive coverage of buck, boost, flyback, push-pull, half bridge, and full bridge regulator circuits. Special attention is given to semiconductors used in switching supplies. RFI/EMI reduction, grounding, testing, and safety standards are also detailed.

Numerous design examples and equations are given and discussed. Even if your primary expertise is in logic or microprocessor engineering, you'll be able to design a power supply that's right for your application with this essential guide and reference! Gives special attention to resonant switching power supplies, a state-of-the-art trend in switching power supply design Approaches switching power supplies in an organized way beginning with the advantages

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of switching supplies and their basic operating principles Explores various configurations of pulse width modulated (PWM) switching supplies and gives readers ideas for the direction of their designs Especially useful for practicing design engineers whose primary specialty is not in analog or power engineering fields

Written in a down-to-earth, easy-to-understand manner, *Electrical Power Distribution and Transmission* is a state-of-the-art book that offers readers a practical orientation and introduction to electrical power distribution and transmission. Outstanding features, which have been widely applauded, include real-world aspects of the field (readers are exposed to theory and practice they will use in their careers); organized into three easy to understand sections, including History, Electrical Power Distribution, and Electrical Power Transmission; thorough coverage of subject concepts; and offers up-to-date material with historical perspective. This comprehensive book is appropriate for courses in electrical power distribution and/or transmission. Readers will find previous courses in dc/ac circuits, algebra, and trigonometry to be a plus.

Systematic, illustrated units equip student mechanics and motorcycle owners with knowledge of the skills that are essential for successful motorcycle maintenance and repair

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Newly revised and edited and written in straightforward "user language." This book provides an authoritative, yet practical guide for the engineer or technician involved in specifying, applying, maintaining or operating variable frequency drives (VFDs). It includes full coverage of both AC and DC motors and controls. Included are the latest developments in this rapidly changing technology, and overview of starting controls and their application to various types of induction motors, discussion of some of the latest electronic "smart" motor controllers and attributes and capabilities of the "wound-rotor motor, " including how to configure a basic control system for it. A basis is given to compare motor torque and operating characteristics using "starters." The book provides a detailed evaluation of the most common versions of variable frequency drives.

Curland, a developer for Microsoft, demonstrates techniques programmers can use to write reusable Visual Basic (VB) code, and how to leverage the close relationships between VB, COM, and OLE automation to extend VB's capabilities. The book alternates between a low-level look at the data underlying array, object, and string types and practical applications of these structures. The CD-ROM contains source code sample that enable techniques without external DLLs. Annotation copyrighted by Book News, Inc., Portland, OR

Transmission and Distribution Electrical EngineeringElsevier

"HOW SWEET IT IS will set your heart on fire"

-Robyn Carr, New York Times bestselling author

"One sweet read! Everything I love best: humor, warmth, emotions that pull at the heartstrings, characters that step off the page, and a wonderful love story." -- Mariah Stewart, New York Times

bestselling author HOW SWEET IT IS Single mom

Lizzie Bea Carpenter learned long ago that no white knight was coming to save her. A hardworking waitress at the local diner, she's raising her daughter to be like the independent women in her "Enemy Club"--high school rivals turned best friends, promising to always tell each other the whole truth and nothing but! Yet part of Lizzie wishes she did have a man's help, just for small stuff, like fixing up the house. Her fairy godmother must have been listening, because Dante "Tay" Giovanni soon appears. He's sexy, kind, and offering assistance--no strings attached. Slowly, steadily, Lizzie's heart opens. But the grip of the past is fierce, and nothing in life is ever really free. Tay has his own tragedies to overcome, but if he can, he'll fix more than Lizzie's home. He'll show her just how sweet it is to be loved by him.

Loop control is an essential area of electronics engineering that today's professionals need to master. Rather than delving into extensive theory,

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this practical book focuses on what you really need to know for compensating or stabilizing a given control system. You can turn instantly to practical sections with numerous design examples and ready-made formulas to help you with your projects in the field. You also find coverage of the underpinnings and principles of control loops so you can gain a more complete understanding of the material. This authoritative volume explains how to conduct analysis of control systems and provides extensive details on practical compensators. It helps you measure your system, showing how to verify if a prototype is stable and features enough design margin. Moreover, you learn how to secure high-volume production by bench-verified safety margins.

Low Power Design Methodologies presents the first in-depth coverage of all the layers of the design hierarchy, ranging from the technology, circuit, logic and architectural levels, up to the system layer. The book gives insight into the mechanisms of power dissipation in digital circuits and presents state of the art approaches to power reduction. Finally, it introduces a global view of low power design methodologies and how these are being captured in the latest design automation environments. The individual chapters are written by the leading researchers in the area, drawn from both industry and academia. Extensive references are included at the end of each chapter. Audience: A broad introduction for anyone interested in low power design. Can also be used as a text book for an advanced graduate class. A starting point for any aspiring researcher.

CE Marking for Low Voltage Directive is the essential

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reference for all manufacturers/ exporters of electronic products to the European Economic Area (EEA). In this one volume, you get the complete text of the Low-Voltage Directive, along with a step-by-step overview and explanation of the certification procedure. It presents everything you need to know about the requirements the Directive imposes on your electronic products. Specifically written for American manufacturers, it covers all the frequently asked questions about the Directive. Comprehensive and easy-to-understand text, practical examples and well-organized diagrams and drawings make this volume an important new resource on meeting the requirements for compliance and getting your products to market in the EEA.

Power Supply Cookbook, Second Edition provides an easy-to-follow, step-by-step design framework for a wide variety of power supplies. With this book, anyone with a basic knowledge of electronics can create a very complicated power supply design in less than one day. With the common industry design approaches presented in each section, this unique book allows the reader to design linear, switching, and quasi-resonant switching power supplies in an organized fashion. Formerly complicated design topics such as magnetics, feedback loop compensation design, and EMI/RFI control are all described in simple language and design steps. This book also details easy-to-modify design examples that provide the reader with a design template useful for creating a variety of power supplies. This newly revised edition is a practical, "start-to-finish" design reference. It is organized to allow both seasoned and inexperienced engineers to quickly find and apply the information they need. Features of the new edition include updated information on the design of the output stages, selecting the controller IC, and other functions associated with power supplies, such as: switching power supply control, synchronization of the power supply to an

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external source, input low voltage inhibitors, loss of power signals, output voltage shut-down, major current loops, and paralleling filter capacitors. It also offers coverage of waveshaping techniques, major loss reduction techniques, snubbers, and quasi-resonant converters. Guides engineers through a step-by-step design framework for a wide variety of power supplies, many of which can be designed in less than one day Provides easy-to-understand information about often complicated topics, making power supply design a much more accessible and enjoyable process

This textbook starts with a review of the principles of operation, modeling and control of common solar energy and wind-power generation systems before moving on to discuss grid compatibility, power quality issues and hybrid models of Solar PV and Wind Energy Conversion Systems (WECS). MATLAB/SIMULINK models of fuel cell technology and associated converters are discussed in detail. The impact of soft computing techniques such as neural networks, fuzzy logic and genetic algorithms in the context of solar and wind energy is explained with practical implementation using MATLAB/SIMULINK models. This book is intended for final year undergraduate, post-graduate and research students interested in understanding the modeling and control of Solar PV and Wind Energy Conversion Systems based on MATLAB/SIMULINK. - Each chapter includes "Learning Objectives" at the start, a "Summary" at the end and helpful Review Questions - Includes MATLAB/SIMULINK models of different control strategies for power conditioning units in the context of Solar PV - Presents soft computing techniques for Solar PV and WECS, as well as MATLAB/SIMULINK models, e.g. for wind turbine topologies and grid integration - Covers hybrid solar PV and Wind Energy Conversion Systems with converters and MATLAB/SIMULINK models - Reviews harmonic reduction in Solar PV and Wind Energy Conversion

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Systems in connection with power quality issues - Covers fuel cells and converters with implementation using MATLAB/SIMULINK

NASA SP-2004-4407. NASA History Series. Edited by John M. Logsdon, et al. 6th in a series containing a selection of key documents in the history of the United States civil space program. Includes chapters on solar physics, space physics, life sciences, and Earth science. LC. card 96-9066.

Chapter 1: System Studies -- Chapter 2: Drawings and Diagrams -- Chapter 3: Substation Layouts -- Chapter 4: Substation Auxiliary Power Supplies -- Chapter 5: Current and Voltage Transformers -- Chapter 6: Insulators -- Chapter 7: Substation Building Services -- Chapter 8: Earthing and Bonding -- Chapter 9: Insulation Co-ordination -- Chapter 10: Relay Protection -- Chapter 11: Fuses and Miniature Circuit Breakers -- Chapter 12: Cables -- Chapter 13: Switchgear -- Chapter 14: Power Transformers -- Chapter 15: Substation and Overhead Line Foundations -- Chapter 16: Overhead Line Routing -- Chapter 17: Structures, Towers and Poles -- Chapter 18: Overhead Line Conductor and Technical Specifications -- Chapter 19: Testing and Commissioning -- Chapter 20: Electromagnetic Compatibility -- Chapter 21: Supervisory Control and Data Acquisition -- Chapter 22: Project Management -- Chapter 23: Distribution Planning -- Chapter 24: Power Quality- Harmonics in Power Systems -- Chapter 25: Power Qual ...

A Frequency Dictionary of Mandarin Chinese is an invaluable tool for all learners of Mandarin Chinese, providing a list of the 5,000 words and the 2,000 Chinese characters (simplified) most commonly used in the language. Based on a fifty-million-word corpus composed of spoken, fiction, non-fiction and news texts in current use, the dictionary provides the user with a detailed frequency-based list, as well as alphabetical and part-of-speech indexes. All entries in the



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frequency list feature the English equivalent and a sample sentence with English translation. The Dictionary also contains thirty thematically organized lists of frequently used words on a variety of topics such as food, weather, travel and time expressions. A Frequency Dictionary of Mandarin Chinese enables students of all levels to maximize their study of Mandarin vocabulary in an efficient and engaging way. It is also an excellent resource for teachers of the language. A CD version is available to purchase separately. Designed for use by corpus and computational linguists it provides the full text in a format that researchers can process and turn into suitable lists for their own research work.

Digital Control in Power Electronics presents students of electrical engineering a basic introduction to typical power converter control problems, their digital solutions, and the most widespread digital control techniques. Although the presentation has been limited to a single converter topology (the half bridge voltage source inverter), the control topics represent a significant spectrum of the more frequently encountered digital control applications in power electronics. Authors Paolo Mattavelli and Simone Buso introduce the reader to basic control problems in power electronic circuits in order to illustrate widely applied digital solutions to these problems. They also aim to raise students' awareness of discrete time control theory, stimulating new developments in its application to power converters.

Practical Power System and Protective Relays Commissioning is a unique collection of the most important developments in the field of power system setup. It includes simple explanations and cost affordable models for operating engineers. The book explains the theory of power system components in

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a simple, clear method that also shows how to apply different commissioning tests for different protective relays. The book discusses scheduling for substation commissioning and how to manage available resources to efficiently complete projects on budget and with optimal use of resources. Explains the theory of power system components and how to set the different types of relays Discusses the time schedule for substation commissioning and how to manage available resources and cost implications Details worked examples and illustrates best practices

The Complete Idiot's Guide to Motorcycles, Fourth Edition, is the most complete book on motorcycles, covering everything from how to choose and maintain a motorcycle and how to buy appropriate gear, to how to ride safely, and how to make the most out of trips on the open road.

This paper reviews the Annual Progress Report (APR) on Poverty Reduction Strategy Paper (PRSP) on Benin. The APR presents an overview of the implementation of the strategy addressing in turn the new vision of development in Benin, the major projects initiated for the creation of national wealth and the situation of poverty, and the achievement of the Millennium Development Goals in Benin. The APR also focuses on the level of implementation of the strategy, and deals with the monitoring of the macroeconomic and budgeting framework.

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Tone: it's the concept that gear-obsessed guitarists discuss more than any other, and the Tone Manual is the first book to take this hallowed concept seriously. In the course of breaking down the individual components of the electric guitar rig, the book both examines the ingredients in any given piece of equipment that contribute to superior or inferior sound, and offers tips on improving and making the most of the gear you've already got - all with reference to interviews with name artists and manufacturers. In addition, the Tone Manual discusses the evolution of the guitarist's concept of "good tone." It provides an extensive guide to recorded examples of playing generally considered "tonally superior," citing examples from the early days of electric jazz, blues, country, and rock and roll; from the classic rock, blues rock, and heavy rock heyday of the late 1960s and early '70s; and from myriad contemporary artists. Throughout the Tone Manual, a series of more than 30 Tone Tips will offer quick, digestible, practical info bites to help readers improve their sound and better understand their equipment. The Tone Manual also includes helpful diagrams and a cover-mounted CD.

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