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EF4 - LANG MARCO

Marshall amps have defined the sound of rock for a generation, boasting such notable users as Jimi Hendrix, Eric Clapton, Jeff Beck, Ritchie Blackmore and Jimmy Page. This book explores the British company responsible for that sweet overdrive sound - the company that originated the amp "stack" - tracing the impressive lineage of its valve ("tube" to us Yanks!) guitar amps. Doyle is the acknowledged authority on the subject, and here he combines detailed chronologies of the various model and serial numbers, straightforward explanations of their features and construction, and aesthetic evaluations of the results. The book is

dotted with the names of rock luminaries and peppered with photos - well over 100 black-and-white ones, plus a 32-page color section and a 32-page full-color appendix that reproduces all of the Marshall catalogues of the sixties.

The complete editorial contents of Qpedia Thermal eMagazine, Volume 3, Issues 1 - 12 features in-depth, technical articles covering the most critical areas of electronics cooling.

THE TUBE AMP BOOK WITH AUDIO ONLINE ERRATA SHEET ADDED.

Thoroughly revised and expanded to help readers systematically increase their knowledge and insight about Sigma-Delta Modulators Sigma-Delta Modulators (SDMs) have

become one of the best choices for the implementation of analog/digital interfaces of electronic systems integrated in CMOS technologies. Compared to other kinds of Analog-to-Digital Converters (ADCs), $\Sigma\Delta$ M cover one of the widest conversion regions of the resolution-versus-bandwidth plane, being the most efficient solution to digitize signals in an increasingly number of applications, which span from high-resolution low-bandwidth digital audio, sensor interfaces, and instrumentation, to ultra-low power biomedical systems and medium-resolution broadband wireless communications. Following the spirit of its first edition, Sigma-Delta Converters: Practical Design Guide, 2nd Edition takes a

comprehensive look at SDMs, their diverse types of architectures, circuit techniques, analysis synthesis methods, and CAD tools, as well as their practical design considerations. It compiles and updates the current research reported on the topic, and explains the multiple trade-offs involved in the whole design flow of Sigma-Delta Modulators—from specifications to chip implementation and characterization. The book follows a top-down approach in order to provide readers with the necessary understanding about recent advances, trends, and challenges in state-of-the-art $\Sigma\Delta$ Ms. It makes more emphasis on two key points, which were not treated so deeply in the first edition: It includes a more detailed explanation of $\Sigma\Delta$ Ms implemented using Continuous-Time (CT) circuits, going from system-level synthesis to practical circuit limitations. It provides more practical case studies and applications, as well as a deeper description of the synthesis methodologies and CAD tools employed in the design of $\Sigma\Delta$ converters. Sigma-Delta Converters: Practical Design Guide, 2nd Edition serves as an excellent textbook for undergra-

duate and graduate students in electrical engineering as well as design engineers working on SD data-converters, who are looking for a uniform and self-contained reference in this hot topic. With this goal in mind, and based on the feedback received from readers, the contents have been revised and structured to make this new edition a unique monograph written in a didactical, pedagogical, and intuitive style.

IMDC-SDSP conference offers an exceptional platform and opportunity for practitioners, industry experts, technocrats, academics, information scientists, innovators, postgraduate students, and research scholars to share their experiences for the advancement of knowledge and obtain critical feedback on their work. The timing of this conference coincides with the rise of Big Data, Artificial Intelligence powered applications, Cognitive Communications, Green Energy, Adaptive Control and Mobile Robotics towards Sustainable Development and Smart Planning and management of the future technologies. It is aimed at the knowledge generated from the integration of the different data sources

related to a number of active real-time applications in supporting the smart planning and enhance and sustain a healthy environment. The conference also covers the rise of the digital health, well-being, home care, and patient-centred era for the benefit of patients and healthcare providers; in addition to how supporting the development of a platform of smart Dynamic Health Systems and self-management.

Aircraft Engineering Principles is the essential text for anyone studying for licensed A&P or Aircraft Maintenance Engineer status. The book is written to meet the requirements of JAR-66/ECAR-66, the Joint Aviation Requirement (to be replaced by European Civil Aviation Regulation) for all aircraft engineers within Europe, which is also being continuously harmonised with Federal Aviation Administration requirements in the USA. The book covers modules 1, 2, 3, 4 and 8 of JAR-66/ECAR-66 in full and to a depth appropriate for Aircraft Maintenance Certifying Technicians, and will also be a valuable reference for those taking ab initio programmes in JAR-147/ECAR-147 and FAR-147. In addition, the necessary mathematics,

aerodynamics and electrical principles have been included to meet the requirements of introductory Aerospace Engineering courses. Numerous written and multiple choice questions are provided at the end of each chapter, to aid learning.

Radio-Frequency Microelectronic Circuits for Telecommunication Applications covers the design issues of radio-frequency microelectronic circuits for telecommunication applications with emphasis on devices and circuit-level design. It uses a large number of real examples from industrial design as a vehicle both to teach the principles and to ensure relevance starting from device level modeling to basic RF microelectronic circuit cell design. Modeling for high-frequency operation of both active and passive integrated devices is covered starting from the bipolar transistor to the MOS transistor to the modeling of integrated spiral inductors, resistors, capacitors, varactors and package parasitics structures. A chapter is also devoted to the presentation of the basic definitions and terminology used in RF IC design. The book continues with the presentation of the princi-

pal building blocks of an integrated RF front-end, namely, the LNA, the mixer, the VCO and integrated filters. Design paradigms are provided classified on the technology used in each case: pure bipolar, CMOS, BiCMOS or SiGe. Radio-Frequency Microelectronic Circuits for Telecommunication Applications is essential reading for all researchers, practising engineers and designers working in RF electronics. It is also a reference for use in advanced undergraduate or graduate courses in the same field.

Designing PCBs is made easier with the help of today's sophisticated CAD tools, but many companies' requirements do not justify the acquisition cost and learning curve associated with specialized PCB design software. Printed Circuit Board Design Using AutoCAD helps design engineers and students get the most out of their AutoCAD workstation, showing tips and techniques to improve your design process. The book is organized as a series of exercises that show the reader how to draft electronic schematics and to design single-sided, double-sided, and surface-mount PCBs. Coverage includes drafting schemat-

ics, designing PCB artwork, and preparation of detailed fabrication and assembly drawings for PCBs designed on other EDA systems. Appendices on the Gerber and Excellon formats are vital information for anyone involved in professional PCB design. An introductory chapter gives an overview of PCB manufacturing technology and design techniques. In addition to the tips and techniques, the author has provided a copy of AutoPADS, a proprietary toolkit for PCB designers using AutoCAD. The disk includes the AutoPADS conversion utilities, sample files for the book exercises, and AutoCAD libraries for schematic drafting and PCB design. The AutoPADS utilities allow bidirectional transfer of Gerber format photoplotter data and Excellon format numerical control (NC) drill data from AutoCAD. The AutoPADS utilities also allow input of Hewlett-Packard Graphics Language (HPGL) data from other computer-aided design systems into AutoCAD. ABOUT THE AUTHOR Chris Schroeder is the Chief Engineer, Electronics, for Crane Technologies Group, Inc., Daytona Beach, Florida, a leading automotive aftermarket and original equip-

ment supplier. He has 19 years of engineering, marketing, and management experience in the electronics industry and has a broad, yet in-depth technical knowledge of both design and manufacturing. His specialized areas of design expertise include: embedded controls using RISC microcontroller technology, assembly language programming, magnetic design for switching power supplies and ignition coils, and printed circuit board design, including the use of surface mount technology. · Integrating PCB design with AutoCAD systems · How to draft schematics and design PCBs · Interfacing with Gerber, Excellon, and HPGL formats

Electromagnetic Compatibility of Integrated Circuits: Techniques for Low Emission and Susceptibility focuses on the electromagnetic compatibility of integrated circuits. The basic concepts, theory, and an extensive historical review of integrated circuit emission and susceptibility are provided. Standardized measurement methods are detailed through various case studies. EMC models for the core, I/Os, supply network, and packaging are described with applications to conducted switch-

ing noise, signal integrity, near-field and radiated noise. Case studies from different companies and research laboratories are presented with in-depth descriptions of the ICs, test set-ups, and comparisons between measurements and simulations. Specific guidelines for achieving low emission and susceptibility derived from the experience of EMC experts are presented.

For courses in Introduction to Technical Drawing. Designed for the two-year college or high-school tech prep student, this book offers a complete field-tested curriculum for the first semester of technical drawing. Its unique approach blends technical drawing and intro to AutoCAD, resulting in a book that emphasizes the fundamental concepts, knowledge and skill needed for the second level courses. Both mechanical and architectural projects are introduced to capture the interest of more students and to offer a broader appeal. Instructor check prints and PowerPoint slides are provided to guide each lecture and the complete curriculum is designed to improve student retention and recruitment.

Using circuit diagrams, PCB layouts, parts lists and clear construction and installation details, this book provides everything someone with a basic knowledge of electronics needs to know in order to put that knowledge into practice. This latest collection of Maplin projects are a variety of power supply projects, the necessary components for which are readily available from the Maplin catalogue or any of their high street shops. Projects include, laboratory power supply projects for which there are a wide range of applications for the hobbyist, from servicing portable audio and video equipment to charging batteries; and miscellaneous projects such as a split charge unit for use in cars or similar vehicles when an auxiliary battery is used to power 12v accessories in a caravan or trailer. Both useful and innovative, these projects are above all practical and affordable.

Maintaining a stable level of power quality in the distribution network is a growing challenge due to increased use of power electronics converters in domestic, commercial and industrial sectors. Power quality deterioration is manifested in increased losses; poor utilization of

distribution systems; mal-operation of sensitive equipment and disturbances to nearby consumers, protective devices, and communication systems. However, as the energy-saving benefits will result in increased AC power processed through power electronics converters, there is a compelling need for improved understanding of mitigation techniques for power quality problems. This timely book comprehensively identifies, classifies, analyses and quantifies all associated power quality problems, including the direct integration of renewable energy sources in the distribution system, and systematically delivers mitigation techniques to overcome these problems. Key features:

- Emphasis on in-depth learning of the latest topics in power quality extensively illustrated with waveforms and phasor diagrams.
- Essential theory supported by solved numerical examples, review questions, and unsolved numerical problems to reinforce understanding.
- Companion website contains solutions to unsolved numerical problems, providing hands-on experience. Senior undergraduate and graduate electrical engineering

students and instructors will find this an invaluable resource for education in the field of power quality. It will also support continuing professional development for practicing engineers in distribution and transmission system operators.

This book provides a collection of comprehensive research articles on data analytics and applications of wearable devices in healthcare. This Special Issue presents 28 research studies from 137 authors representing 37 institutions from 19 countries. To facilitate the understanding of the research articles, we have organized the book to show various aspects covered in this field, such as eHealth, technology-integrated research, prediction models, rehabilitation studies, prototype systems, community health studies, ergonomics design systems, technology acceptance model evaluation studies, telemonitoring systems, warning systems, application of sensors in sports studies, clinical systems, feasibility studies, geographical location based systems, tracking systems, observational studies, risk assessment studies, human activity recognition systems, im-

pact measurement systems, and a systematic review. We would like to take this opportunity to invite high quality research articles for our next Special Issue entitled “Digital Health and Smart Sensors for Better Management of Cancer and Chronic Diseases” as a part of Sensors journal.

This very detailed book discusses architectures, circuits and procedures for the optimum design of bandpass sigma-delta A/D interfaces for mixed-signal chips in standard CMOS technologies. It provides uniquely in-depth coverage of switched-current errors, which supports the design of high performance SI chips.

A comprehensive overview of Sigma-Delta Analog-to-Digital Converters (ADCs) and a practical guide to their design in nano-scale CMOS for optimal performance. This book presents a systematic and comprehensive compilation of sigma-delta converter operating principles, the new advances in architectures and circuits, design methodologies and practical considerations – going from system-level specifications to silicon integration, packaging and measurements, with emphasis on nanometer CMOS implementation.

The book emphasizes practical design issues – from high-level behavioural modelling in MATLAB/SIMULINK, to circuit-level implementation in Cadence DesignFrameWork II. As well as being a comprehensive reference to the theory, the book is also unique in that it gives special importance on practical issues, giving a detailed description of the different steps that constitute the whole design flow of sigma-delta ADCs. The book begins with an introductory survey of sigma-delta modulators, their fundamentals architectures and synthesis methods discovered in Chapter 1. In Chapter 2, the effect of main circuit error mechanisms is analysed, providing the necessary understanding of the main practical issues affecting the performance of sigma-delta modulators. The knowledge derived from the first two chapters is presented in the book as an essential part of the systematic top-down/bottom-up synthesis methodology of sigma-delta modulators described in Chapter 3, where a time-domain behavioural simulator named SIMSIDES is described and applied to the high-level design and verification of sigma-delta ADCs. Chapter 4 moves far-

ther down from system-level to the circuit and physical level, providing a number of design recommendations and practical recipes to complete the design flow of sigma-delta modulators. To conclude the book, Chapter 5 gives an overview of the state-of-the-art sigma-delta ADCs, which are exhaustively analysed in order to extract practical design guidelines and to identify the incoming trends, design challenges as well as practical solutions proposed by cutting-edge designs. Offers a complete survey of sigma-delta modulator architectures from fundamentals to state-of-the-art topologies, considering both switched-capacitor and continuous-time circuit implementations. Gives a systematic analysis and practical design guide of sigma-delta modulators, from a top-down/bottom-up perspective, including mathematical models and analytical procedures, behavioural modeling in MATLAB/SIMULINK, macromodeling, and circuit-level implementation in Cadence DesignFrameWork II, chip prototyping, and experimental characterization. Systematic compilation of cutting-edge sigma-delta modulators. Complete descrip-

tion of SIMSIDES, a time-domain behavioural simulator implemented in MATLAB/SIMULINK. Plenty of examples, case studies, and simulation test benches, covering the different stages of the design flow of sigma-delta modulators. A number of electronic resources, including SIMSIDES, the statistical data used in the state-of-the-art survey, as well as many design examples and test benches are hosted on a companion website. Essential reading for Researchers and electronics engineering practitioners interested in the design of high-performance data converters integrated in nanometer CMOS technologies; mixed-signal designers.

The printed circuit is the basic building block of the electronics hardware industry. This is a comprehensive single volume self-teaching guide to the art of printed circuit board design and fabrication -- covering the complete cycle of PCB creation, design, layout, fabrication, assembly, and testing.

"Mark I. Montrose, the best-selling author of PRINTED CIRCUIT BOARD DESIGN TECHNIQUES FOR EMC COMPLIANCE, now brings you his newest book, EMC AND THE PRINT-

ED CIRCUIT BOARD. This accessible, new reference work shows how and why RF energy is created within a printed circuit board and the manner in which propagation occurs. With lucid explanations, this book enables engineers to grasp both the fundamentals of EMC theory and signal integrity and the mitigation process needed to prevent an EMC event. Author Montrose also shows the relationship between time and frequency domains to help you meet mandatory compliance requirements placed on printed circuit boards. Using real-world examples the book features:

- * Clear discussions, without complex mathematical analysis, of flux minimization concepts
- * Extensive analysis of capacitor usage for various applications
- * Detailed examination of components characteristics with various grounding methodologies, including implementation techniques
- * An in-depth study of transmission line theory
- * A careful look at signal integrity, crosstalk, and termination"

Sponsored by: IEEE Electromagnetic Compatibility Society.

Focusing on the line of high-performance microcontrollers offered by Microchip, Microcontrollers:

High-Performance Systems and Programming discusses the practical factors that make the high-performance PIC series a better choice than their mid-range predecessors for most systems. However, one consideration in favor of the mid-range devices is the abundance of published application circuits and code samples. This book fills that gap. Possibility of programming high-performance microcontrollers in a high-level language (C language) Source code compatibility with PIC16 microcontrollers, which facilitates code migration from mid-range to PIC18 devices Pin compatibility of some PIC18 devices with their PIC16 predecessors, making the reuse of PIC16 controllers in circuits originally designed for mid-range hardware possible

Designed to be functional and hands-on, this book provides sample circuits with their corresponding programs. It clearly depicts and labels the circuits, in a way that is easy to follow and reuse. Each circuit includes a parts list of the resources and components required for its fabrication. The book matches sample programs to the individual circuits, discusses general programming techniques,

and includes appendices with useful information.

- Best Selling Book for MHT CET Pharmacy Entrance Exam (PCB Group) with objective-type questions as per the latest syllabus given by the Maharashtra State Common Entrance Test Cell.
- Compare your performance with other students using Smart Answer Sheets in EduGorilla's MHT CET Pharmacy Entrance Exam (PCB Group) Practice Kit.
- MHT CET Pharmacy Entrance Exam (PCB Group) Preparation Kit comes with 20 Tests [10 Mock Tests of Paper-2 (Physics & Chemistry) + 10 Mock Tests of Paper-3 (Biology)] with the best quality content.
- Increase your chances of selection by 14X.
- MHT CET Pharmacy Entrance Exam (PCB Group) Prep Kit comes with well-structured and 100% detailed solutions for all the questions.
- Clear exam with good grades using thoroughly Researched Content by experts.

The second edition of Electronic Imaging in Astronomy: Detectors and Instrumentation describes the remarkable developments that have taken place in astronomical detectors and instrumentation in recent years - from the invention of the charge-cou-

pled device (CCD) in 1970 to the current era of very large telescopes, such as the Keck 10-meter telescopes in Hawaii with their laser guide-star adaptive optics which rival the image quality of the Hubble Space Telescope. Authored by one of the world's foremost experts on the design and development of electronic imaging systems for astronomy, this book has been written on several levels to appeal to a broad readership. Mathematical expositions are designed to encourage a wider audience, especially among the growing community of amateur astronomers with small telescopes with CCD cameras. The book can be used at the college level for an introductory course on modern astronomical detectors and instruments, and as a supplement for a practical or laboratory class.

This accessible, new reference work shows how and why RF energy is created within a printed circuit board and the manner in which propagation occurs. With lucid explanations, this book enables engineers to grasp both the fundamentals of EMC theory and signal integrity and the mitigation process needed to prevent an EMC event. Author Montrose

also shows the relationship between time and frequency domains to help you meet mandatory compliance requirements placed on printed circuit boards. Using real-world examples the book features: Clear discussions, without complex mathematical analysis, of flux minimization concepts Extensive analysis of capacitor usage for various applications Detailed examination of components characteristics with various grounding methodologies, including implementation techniques An in-depth study of transmission line theory A careful look at signal integrity, crosstalk, and termination

A Compilation of 98 tested Electronic Construction Projects and Circuit Ideas for Professionals and Enthusiasts

A presentation of developments in microcontroller technology, providing lucid instructions on its many and varied applications. It focuses on the popular eight-bit microcontroller, the 8051, and the 83C552. The text outlines a systematic methodology for small-scale, control-dominated embedded systems, and is accompanied by a disk of all the example problems included in the book.

The perfect book for computer hobbyists, *Apple I Replica Creation: Back to the Garage* is sure to equally appeal both to kids with gift certificates looking for fun on a snowy January day as well as to adults eager to learn the basics of simple microcomputer design. The book will begin by teaching readers the basics of computer processing by discussing the functionality of the 9 chip on the Apple I motherboard. From there, readers will be taught the basics of memory access and video input and output. Readers then learn how to assemble the various hardware components into a fully functioning Apple I replica. Finally, readers will learn how to write their own applications to take run on their new/old computer. *Written by the webmaster of AppleFritter.com, which is the most popular Mac hobbyist Web site on the internet with over 10,000 visitors a day. *Interest in vintage Apple I Computers is extremely high, with original machines selling for as much as \$50,000. *The only modern-day book to address general microcomputer design from a hobbyist perspective

Combustion technology

has traditionally been dominated by air/fuel combustion. However, two developments have increased the significance of oxygen-enhanced combustion—new technologies that produce oxygen less expensively and the increased importance of environmental regulations. Advantages of oxygen-enhanced combustion include less pollutant emissions as well as increased energy efficiency and productivity. Oxygen-Enhanced Combustion, Second Edition compiles information about using oxygen to enhance industrial heating and melting processes. It integrates fundamental principles, applications, and equipment design in one volume, making it a unique resource for specialists implementing the use of oxygen in combustion systems. This second edition of the bestselling book has more than doubled in size. Extensively updated and expanded, it covers significant advances in the technology that have occurred since the publication of the first edition. What's New in This Edition Expanded from 11 chapters to 30, with most of the existing

chapters revised. A broader view of oxygen-enhanced combustion, with more than 50 contributors from over 20 organizations around the world. More coverage of fundamentals, including fluid flow, heat transfer, noise, flame impingement, CFD modeling, soot formation, burner design, and burner testing. New chapters on applications such as flameless combustion, steel reheating, iron production, cement production, power generation, fluidized bed combustion, chemicals and petrochemicals, and diesel engines. This book offers a unified, up-to-date look at important commercialized uses of oxygen-enhanced combustion in a wide range of industries. It brings together the latest knowledge to assist those researching, engineering, and implementing combustion in power plants, engines, and other applications.

Explains the fundamental concepts and principles underlying the subject, illustrates the application of numerical methods to solve engineering problems with mathematical models, and introduces students to the use of computer applications

to solve problems. A continuous step-by-step build up of the subject makes the book very student-friendly. All topics and sequentially coherent sub-topics are carefully organized and explained distinctly within each chapter. An abundance of solved examples is provided to illustrate all phases of the topic under consideration. All chapters include several spreadsheet problems for modeling of physical phenomena, which enable the student to obtain graphical representations of physical quantities and perform numerical analysis of problems without recourse to a high-level computer language. Adequately equipped with numerous solved problems and exercises, this book provides sufficient material for a two-semester course. The book is essentially designed for all engineering students. It would also serve as a ready reference for practicing engineers and for those preparing for competitive examinations. It includes previous years' question papers and their solutions. CD-ROM contains: PC board tools -- Electrion version of text.