

LTspice Feb 10 2021 Cet ouvrage est conçu pour ceux qui souhaitent se perfectionner dans la connaissance de LTspice, découvrir les nouvelles commandes apparues récemment et tirer le meilleur parti des évolutions apportées aux commandes existantes. Il s'adresse aux utilisateurs de LTspice, aux designers, ingénieurs ou techniciens, ainsi qu'aux élèves ingénieurs et étudiants en électronique. Il complète un premier volume du même auteur paru en 2011 sous le titre Le simulateur LTspice IV. Avec, 3,6 millions d'utilisateurs dans le monde, LTspice, est aujourd'hui le simulateur professionnel le plus utilisé. Points forts Les commandes cachées, améliorées ou nouvelles. Les nouvelles astuces et les méthodes statistiques. Une lecture facilitée, illustrée de 540 figures et 40 tableaux synthétiques. Des réponses détaillées aux questions recueillies au cours des sessions de formation LTspice. Un index exhaustif de 1 500 entrées. Sur www.dunod.com/contenus-complementaires/9782100743193 et sur le site de l'auteur www.LTspice.fr de nombreux compléments dont l'ensemble des schémas et des illustrations du livre.

Le simulateur LTspice IV - 2e éd. Oct 09 2020 LTspice est un logiciel de simulation électronique qui permet d'anticiper les caractéristiques et les performances d'un circuit électronique en assemblant à l'écran des composants virtuels. A partir du noyau spice développé à l'université Berkeley mais très peu convivial, la société Linar Technology (LT) a développé une version plus visuelle, plus facile d'emploi, et gratuite. Cet ouvrage est à la fois un manuel utilisateur qui va de la prise en main à une utilisation très poussée de LTspice IV, et un recueil d'exemples et de procédures avec plus de 470 illustrations. Toutes les commandes et les définitions sont expliquées et classées par thème. Cette deuxième édition intègre les dernières générations de circuits intégrés produits par Linear Technology.

Digital Integrated Circuit Design Sep 27 2019 This practical, tool-independent guide to designing digital circuits takes a unique, top-down approach, reflecting the nature of the design process in industry. Starting with architecture design, the book comprehensively explains the why and how of digital circuit design, using the physics designers need to know, and no more.

Analog Design and Simulation Using OrCAD Capture and PSpice Jun 24 2019 Anyone involved in circuit design that needs the practical know-how it takes to design a successful circuit or product, will find this practical guide to using Capture-PSpice (written by a former Cadence PSpice expert for Europe) an essential book. The text delivers step-by-step guidance on using Capture-PSpice to help professionals produce reliable, effective designs. Readers will learn how to get up and running quickly and efficiently with industry standard software and in sufficient detail to enable building upon personal experience to avoid common errors and pit-falls. This book is of great benefit to professional electronics design engineers, advanced amateur electronics designers, electronic engineering students and academic staff looking for a book with a real-world design outlook. Provides both a comprehensive user guide, and a detailed overview of simulation Each chapter has worked and ready to try sample designs and provides a wide range of to-do exercises Core skills are developed using a running case study circuit Covers Capture and PSpice together for the first time

The Spice Lover's Guide to Herbs and Spices Jun 16 2021 Complete with 185 color photographs, The Spice Lover's Guide to Herbs & Spices is an indispensable culinary reference that is both a pleasure to cook with and enjoyable to read."--BOOK JACKET.

Passive Macromodeling Dec 23 2021 Offers an overview of state of the art passive macromodeling techniques with an emphasis on black-box approaches This book offers coverage of developments in linear macromodeling, with a focus on effective, proven methods. After starting with a definition of the fundamental properties that must characterize models of physical systems, the authors discuss several prominent passive macromodeling algorithms for lumped and distributed systems and compare them under accuracy, efficiency, and robustness standpoints. The book includes chapters with standard background material (such as linear time-invariant circuits and systems, basic discretization of field equations, state-space systems), as well as appendices collecting basic facts from linear algebra, optimization templates, and signals and transforms. The text also covers more technical and advanced topics, intended for the specialist, which may be skipped at first reading. Provides coverage of black-box passive macromodeling, an approach developed by the authors Elaborates on main concepts and results in a mathematically precise way using easy-to-understand language Illustrates macromodeling concepts through dedicated examples Includes a comprehensive set of end-of-chapter problems and exercises Passive Macromodeling: Theory and Applications serves as a reference for senior or graduate level courses in electrical engineering programs, and to engineers in the fields of numerical modeling, simulation, design, and optimization of electrical/electronic systems. Stefano Grivet-Talocia, PhD, is an Associate Professor of Circuit Theory at the Politecnico di Torino in Turin, Italy, and President of IdemWorks. Dr. Grivet-Talocia is author of over 150 technical papers published in international journals and conference proceedings. He invented several algorithms in the area of passive macromodeling, making them available through IdemWorks. Bjørn Gustavsen, PhD, is a Chief Research Scientist in Energy Systems at SINTEF Energy Research in Trondheim, Norway. More than ten years ago, Dr. Gustavsen developed the original version of the vector fitting method with Prof. Semlyen at the University of Toronto. The vector fitting method is one of the most widespread approaches for model extraction. Dr. Gustavsen is also an IEEE fellow.

Basic Linear Design May 04 2020

Passive Circuit Analysis with LTspice® Nov 02 2022 This book shows readers how to learn analog electronics by simulating circuits. Readers will be enabled to master basic electric circuit analysis, as an essential component of their professional education. The author's approach enables readers to learn theory as needed, then immediately apply it to the simulation of circuits based on that theory, while using the resulting tables, graphs and waveforms to gain a deeper insight into the theory, as well as where theory and practice diverge!

RF Power Amplifiers Nov 21 2021 This second edition of the highly acclaimed RF Power Amplifiers has been thoroughly revised and expanded to reflect the latest challenges associated with power transmitters used in communications systems. With more rigorous treatment of many concepts, the new edition includes a unique combination of class-tested analysis and industry-proven design techniques. Radio frequency (RF) power amplifiers are the fundamental building blocks used in a vast variety of wireless communication circuits, radio and TV broadcasting transmitters, radars, wireless energy transfer, and industrial processes. Through a combination of theory and practice, RF Power Amplifiers, Second Edition provides a solid understanding of the key concepts, the principle of operation, synthesis, analysis, and design of RF power amplifiers. This extensive update boasts: up to date end of chapter summaries; review questions and problems; an expansion on key concepts; new examples related to real-world applications illustrating key concepts and brand new chapters covering 'hot topics' such as RF LC oscillators and dynamic power supplies. Carefully edited for superior readability, this work remains an essential reference for research & development staff and design engineers. Senior level undergraduate and graduate electrical engineering students will also find it an invaluable resource with its practical examples & summaries, review questions and end of chapter problems. Key features: • A fully revised solutions manual is now hosted on a companion website alongside new simulations. • Extended treatment of a broad range of topologies of RF power amplifiers. • In-depth treatment of state-of-the art of modern transmitters and a new chapter on oscillators. • Includes problem-solving methodology, step-by-step derivations and closed-form design equations with illustrations.

The SPICE Book Dec 11 2020 This new book, written by Andre Vladimirescu, who was instrumental in the development of SPICE at the University of California Berkeley, introduces computer simulation of electrical and electronics circuits based on the SPICE standard. Relying on the functionality first supported in SPICE2 that is now supported in all SPICE programs, this text is addressed to all users of electrical simulation. The approach to learning circuit simulation is to interpret simulation results in relation to electrical engineering fundamentals; the book asks the student to solve most circuit examples by hand before verifying the results with SPICE. Addressed to both the SPICE novice and the experienced user, the first six chapters provide the relevant information on SPICE functionality for the analysis of linear as well as nonlinear circuits. Each of these chapters starts out with a linear example accessible to any new user of SPICE and proceeds with nonlinear transistor circuits. The latter part of the book goes into more detail on such issues as functional and hierarchical models, distortion analysis, basic algorithms in SPICE and related options parameters, and, how to direct SPICE to find a solution when it does not converge to a solution. The approach emphasizes that SPICE is not a substitute for knowledge of circuit operation but a complement. The SPICE Book is different from previously published books in the approach of solving circuit problems with a computer. The solution to most circuit examples is sketched out by hand first and followed by a SPICE verification. For more complex circuits it is not feasible to find the solution by hand but the approach stresses the need for the SPICE user to understand the results. Readers gain a better comprehension of SPICE thanks to the importance placed on the relation between EE fundamentals and computer simulation. The tutorial approach advances from the hand solution of a circuit to SPICE verification and simulation results interpretation. This book teaches the approach to electrical circuit simulation rather than a specific simulation program. Examples are simulated alternatively with SPICE2, SPICE3 or PSPICE. Accurate descriptions, simulation rationale and cogent explanations make this an invaluable reference.

Audio Power Amplifier Design Jun 04 2020 This book is essential for audio power amplifier designers and engineers for one simple reason...it enables you as a professional to develop reliable, high-performance circuits. The Author Douglas Self covers the major issues of distortion and linearity, power supplies, overload, DC-protection and reactive loading. He also tackles unusual forms of compensation and distortion produced by capacitors and fuses. This completely updated fifth edition includes four NEW chapters including one on The XD Principle, invented by the author, and used by Cambridge Audio. Crosstalk, power amplifier input systems, and microcontrollers in amplifiers are also now discussed in this fifth edition, making this book a must-have for audio power amplifier professionals and audiophiles.

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Semiconductor Device Modeling with Spice Aug 19 2021 Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product.

Designing Circuit Boards with EAGLE Aug 07 2020 "Matt Scarpino has provided a great tool for the hobbyist starting out in the circuit board design world, demonstrating all the features you'll need to create your own circuit board projects. However, the experienced engineer will also benefit from the book, as it serves as a complete reference guide to all EAGLE software configuration settings and features. His insightful guidance helps simplify difficult tasks, and his handy tips will help save you hours of trial-and-error experimentation." --Rich Blum, author, Sams Teach Yourself Arduino Programming in 24 Hours and Sams Teach Yourself Python Programming for Raspberry Pi in 24 Hours Powerful, flexible, and inexpensive, EAGLE is the ideal PCB design solution for every Maker/DIYer, startup, hobbyist, or student. Today, all open source Arduino designs are released in EAGLE format: If you want to design cost-effective new PCBs, this is the tool to learn. Matthew Scarpino helps you take full advantage of EAGLE's remarkable capabilities. You won't find any differential equations here: only basic circuit theory and hands-on techniques for designing effective PCBs and getting innovative new gadgets to market. Scarpino starts with an accessible introduction to the fundamentals of PCB design. Next, he walks through the design of basic, intermediate, and complex circuit boards, starting with a simple inverting amplifier and culminating in a six-layer single-board computer with hundreds of components and thousands of routed connections. As the circuits grow more complex, you'll master advanced EAGLE features and discover how to automate crucial design-related tasks. Whatever your previous experience, Scarpino's start-to-finish examples and practical insight can help you create designs of stunning power and efficiency. Understand single-sided, double-sided, and multilayer boards Design practical circuits with the schematic editor Transform schematics into physical board designs Convert board designs into Gerber output files for fabrication Expand EAGLE's capabilities with new libraries and components Exchange designs with LTspice and simulate their responses to input Automate simple repetitive operations with editor commands Streamline circuit design and library generation with User Language programs (ULPs) Design for the advanced BeagleBone Black, with high-speed BGA devices and a 32-bit system on a chip (SoC) Use buses to draw complex connections between components Configure stackups, create/route BGA components, and route high-speed signals eagle-book.com provides an archive containing the design files for the book's circuits. It also includes EAGLE libraries, scripts, and User Language programs (ULPs).

QEX, Mar 02 2020

Electronics Circuit Spice Simulations with Ltspice Jun 28 2022 This book is all about Spice Circuit Simulations Using LTspice. LTspice is available free from Linear Technology. LTspice is perhaps one of the most widely used free simulators. It is a powerful simulator with a simple interface to handle. The book covers the requirements of a laboratory course in SPICE simulations at an introductory level. It can be used as an aid to practical understanding in any undergraduate engineering course of Analog electronics. The book can also be used as an aid to any standard text on Analog Electronics.Salient Features:* Step by step simulation procedure is presented* Experiments are clearly illustrated.* Brief theory on each topic for understanding is presented.

SPICE for Power Electronics and Electric Power Nov 09 2020 To be accredited, a power electronics course should cover a significant amount of design content and include extensive use of computer-aided analysis with simulation tools such as SPICE. Based upon the authors' experience in designing such courses, SPICE for Power Electronics and Electric Power, Second Edition integrates a SPICE simulator with a po

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