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KiCad Like a Pro - Peter Dalmaris 2018

Signal and Power Integrity--simplified - Eric Bogatin 2010
With the inclusion of the two new hot topics in signal integrity, power integrity and high speed serial links, this book will be the most up to date complete guide to understanding and designing for signal integrity.
Analog Design and Simulation using OrCAD Capture and PSpice - Dennis Fitzpatrick 2011-09-28
Analog Design and Simulation using OrCAD Capture and PSpice provides step-by-step instructions on how to use the Cadence/OrCAD family of Electronic Design Automation software for analog design and simulation. Organized into 22 chapters, each with exercises at the end, it explains how to start Capture and set up the project type and libraries for PSpice simulation. It also covers the use of AC analysis to calculate the frequency and phase response of a circuit and DC analysis to calculate the circuits bias point over a range of values. The book describes a parametric sweep, which involves sweeping a parameter through a range of values, along with the use of Stimulus Editor to define transient analog and digital sources. It also examines the failure of simulations due to circuit errors and missing or incorrect parameters, and discusses the use of Monte Carlo analysis to estimate the response of a circuit when device model parameters are randomly varied between specified tolerance limits according to a specified statistical distribution. Other chapters focus on the use of worst-case analysis to identify the most critical components that will affect circuit performance, how to add and create PSpice models, and how the frequency-related signal and dispersion losses of transmission lines affect the signal integrity of high-speed signals via the transmission lines. Practitioners, researchers, and those interested in using the Cadence/OrCAD professional simulation software to design and analyze electronic circuits will find the information, methods, compounds, and experiments described in this book extremely useful. 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
High Speed PCB Design - Lee W. Ritchey 1996

Designing and Implementing a Micro-controller Based Primary-side Sensing Flyback Converter - Nam Nhat Tran 2014
The fast development of LED and its applications has enabled a new generation of lighting device with higher efficiency and long lifespan. By employing a primary-side sensing flyback converter and the PIC18F micro-controller series, an LED driver could achieve two important features: (1) the compatibility

with the available lighting fixtures, and (2) reducing unit price. The flyback converter was chosen for its simplicity, competitive low cost, and its ability to provide a constant output current, a necessarily important factor to an LED driver. Meanwhile, the PIC18F micro-controller series offer numerous advanced features which include but not limited to pulse-width modulation (PWM), 10-bit 13-channel Analog-to-Digital Converter (ADC) etc., which suitably meet the requirements for regulating a primary-side sensing flyback converter. The design process was first conducted in simulation stage with aid from MatlabRTM-Simulink and Cadence OrCAD Capture CIS (PSpice). By using PI based control scheme and making full use of built-in Analog Behavioral Modelling (ABM) blocks, the simulation-relevant difficulties due to lacking of appropriate model for the PIC18F series micro-controller were completely solved. The simulation results matched well with the intended design specifications: the output voltage is 32 VDC while the load current is 350 mA. More importantly, the simulation results demonstrated the feasibility of deploying a primary-side sensing flyback converter in conjunction with a PIC18F micro-controller as an LED driver. Next, a demo printed-circuit board (PCB) was layout by using OrCAD PCB Editor. Finally, the PIC18F4550 micro-controller was programmed to undertake control tasks of the LED driver. The experimental results reflect the project's success with all the parts of the driver harmoniously work as expected.

Lions' Commentary on UNIX 6th Edition with Source Code - John Lions 1996-01-01

For the past 20 years, UNIX insiders have cherished and zealously guarded pirated photocopies of this manuscript, a "hacker trophy" of sorts. Now legal (and legible) copies are available. An international "who's who" of UNIX wizards, including Dennis Ritchie, have contributed essays extolling the merits and importance of this underground classic.

Complete PCB Design Using OrCAD Capture and PCB Editor - Kraig Mitzner 2019-06-21

Complete PCB Design Using OrCAD Capture and PCB Editor, Second Edition, provides practical instruction on how to use the OrCAD design suite to design and manufacture printed circuit boards. Chapters cover how to Design a PCB using OrCAD Capture and OrCAD PCB Editor, adding PSpice simulation capabilities to a design, how to develop custom schematic parts, how to create footprints and PSpice models, and how to perform documentation, simulation and board fabrication from the same schematic design. This book is suitable for both beginners and experienced designers, providing basic principles and the program's full capabilities for optimizing designs. Companion site https://www.elsevier.com/books-and-journals/book-companion/9780128176849

Complete Digital Design : A Comprehensive Guide to Digital Electronics and Computer System Architecture - Mark Balch 2003-06-20

This is a readable, hands-on self-tutorial through basic digital electronic design methods. The format and content allows readers faced with a design problem to understand its unique requirements and then research and evaluate the components and technologies required to solve it. * Begins with basic design elements and expands into full systems * Covers digital, analog, and full-system designs * Features real world implementation of complete digital systems

Right the First Time - Lee W. Ritchey 2003

EMC and the Printed Circuit Board - Mark I. Montrose 2004-04-05

This accessible, new reference work shows how and why RF energy iscreated within a printed circuit board and the manner in whichpropagation occurs. With lucid explanations, this book enablesengineers to grasp both the fundamentals of EMC theory and signalintegrity and the mitigation process needed to prevent an EMCevent. Author Montrose also shows the relationship between time andfrequency domains to help you meet mandatory compliancerequirements placed on printed circuit boards. Using real-world examples the book features: Clear discussions, without complex mathematical analysis, offlux minimization concepts Extensive analysis of capacitor usage for variousapplications Detailed examination of components characteristics with variousgrounding methodologies, including implementation

techniques An in-depth study of transmission line theory A careful look at signal integrity, crosstalk, andtermination

Digital Systems Design with FPGAs and CPLDs - Ian Grout 2011-04-08

Digital Systems Design with FPGAs and CPLDs explains how to design and develop digital electronic systems using programmable logic devices (PLDs). Totally practical in nature, the book features numerous (quantify when known) case study designs using a variety of Field Programmable Gate Array (FPGA) and Complex Programmable Logic Devices (CPLD), for a range of applications from control and instrumentation to semiconductor automatic test equipment. Key features include: * Case studies that provide a walk through of the design process, highlighting the trade-offs involved. * Discussion of real world issues such as choice of device, pin-out, power supply, power supply decoupling, signal integrity- for embedding FPGAs within a PCB based design. With this book engineers will be able to: * Use PLD technology to develop digital and mixed signal electronic systems * Develop PLD based designs using both schematic capture and VHDL synthesis techniques * Interface a PLD to digital and mixed-signal systems * Undertake complete design exercises from design concept through to the build and test of PLD based electronic hardware This book will be ideal for electronic and computer engineering students taking a practical or Lab based course on digital systems development using PLDs and for engineers in industry looking for concrete advice on developing a digital system using a FPGA or CPLD as its core. Case studies that provide a walk through of the design process, highlighting the trade-offs involved. Discussion of real world issues such as choice of device, pin-out, power supply, power supply decoupling, signal integrity- for embedding FPGAs within a PCB based design.

PSPICE A Powerful Simulation Tool for Power Electronics & VLSI Design - Suman Debnath 2020-07-31

This book is covered with simulation procedure of Power Electronics and VLSI circuit in detail using PSPICE Simulation tool. The purpose of this Book is to provide a guideline how to simulate and analyze power electronics and VLSI circuits which are building block of a complex circuit. It is possible to analyze the circuit in different ways using PSPICE Simulation tool. This book is useful for simulation of Power Electronics circuits, making simulation project useful for UG, PG and research scholar subjected to power electronics and VLSI design.

Basic Engineering Circuit Analysis - J. David Irwin 2006-05-05

MEMS-based System for Particle Exposure Assessment Using Thin-film Bulk Acoustic Wave Resonators and IR/UV Optical Discrimination - Justin Phelps Black 2006

Complete PCB Design Using OrCad Capture and Layout - Kraig Mitzner 2011-04-01

Complete PCB Design Using OrCad Capture and Layout provides instruction on how to use the OrCAD design suite to design and manufacture printed circuit boards. The book is written for both students and practicing engineers who need a quick tutorial on how to use the software and who need in-depth knowledge of the capabilities and limitations of the software package. There are two goals the book aims to reach: The primary goal is to show the reader how to design a PCB using OrCAD Capture and OrCAD Layout. Capture is used to build the schematic diagram of the circuit, and Layout is used to design the circuit board so that it can be manufactured. The secondary goal is to show the reader how to add PSpice simulation capabilities to the design, and how to develop custom schematic parts, footprints and PSpice models. Often times separate designs are produced for documentation, simulation and board fabrication. This book shows how to perform all three functions from the same schematic design. This approach saves time and money and ensures continuity between the design and the manufactured product. Information is presented in the exact order a circuit and PCB are designed Straightforward, realistic examples present the how and why the designs work, providing a comprehensive toolset for understanding the OrCAD software Introduction to the IPC, JEDEC, and IEEE standards relating to PCB design Full-color interior and extensive illustrations allow readers to learn features of the product in the

most realistic manner possible
Robot Builder's Sourcebook - Gordon McComb 2003
* A much-needed clearinghouse for information on amateur and educational robotics, containing over 2,500 listings of robot suppliers, including mail order and local area businesses * Contains resources for both common and hard-to-find parts and supplies * Features dozens of "sidebars" to clarify essential robotics technologies * Provides original articles on various robot-building topics
Complete PCB Design Using OrCAD Capture and PCB Editor - Kraig Mitzner 2009-05-28
This book provides instruction on how to use the OrCAD design suite to design and manufacture printed circuit boards. The primary goal is to show the reader how to design a PCB using OrCAD Capture and OrCAD Editor. Capture is used to build the schematic diagram of the circuit, and Editor is used to design the circuit board so that it can be manufactured. The book is written for both students and practicing engineers who need in-depth instruction on how to use the software, and who need background knowledge of the PCB design process. Beginning to end coverage of the printed circuit board design process. Information is presented in the exact order a circuit and PCB are designed Over 400 full color illustrations, including extensive use of screen shots from the software, allow readers to learn features of the product in the most realistic manner possible Straightforward, realistic examples present the how and why the designs work, providing a comprehensive toolset for understanding the OrCAD software Introduces and follows IEEE, IPC, and JEDEC industry standards for PCB design. Unique chapter on Design for Manufacture covers padstack and footprint design, and component placement, for the design of manufacturable PCB's FREE CD containing the OrCAD demo version and design files
Design and Control of a Multilevel Inverter for Electric Vehicles - Arthur W. Matteson 2008

Design Guidelines for Surface Mount and Fine Pitch Technology - Vern Solberg 1996
Very Good,No Highlights or Markup,all pages are intact.
100 Power Tips for FPGA Designers -

A Brief Introduction to Circuit Analysis - J. David Irwin 2003-01-07
* Chapter selection covers all the necessary topics for a basicunderstanding of circuit analysis. Op-Amp coverage is integratedthroughout when appropriate in chapters 3,4,5 and 8. * Irwin does it better than any other text in the market! Thisbrief text offers students the most accessible and provenpresentation of any circuit analysis text available. Throughreal-world examples and reader friendly explanations students willbe motivated to learn this topic . * Practice makes perfect. With the inclusion of many exampleproblems to the Applications sections throughout the text and theavailability of eGrade, an on-line quizzing function students willhave the opportunity to practice, practice, practice...that isuntil they get it right. * Are you concerned with how well your students are graspingconcepts? Special Exercises and drill problems help students assessproper problem-solving techniques needed to solve chapterproblems. * Options are always available! Irwin offers a variety ofend-of-chapter problems that range from basic to advanced. Basicproblems, which graduate in difficulty are further subdivided andreferenced to chapter subsections while the more advanced problemsrequire the use of multiple techniques with no assistance. Alsoincluded are problems, which students would typically find on theFE Exam. * New! Web-based learning - Circuit Solutions is an innovativeweb-based learning site available in conjunction with this text.Students walk through carefully produced solutions to select end ofchapter problems one step at a time. The site illustrates thenecessary concepts that should be applied when solving eachproblem. Important theories and definitions are highlightedthroughout the program, solidifying the key concepts taught in thebook.
Lego Mindstorms Mechatronics - Don Wilcher 2003
Focuses on hot technology topics: electronics, embedded systems, object-oriented technology, software development, and robotics. This book also includes projects for each concept, including a LEGO camera

for the remote control vision chapter, an interface for a robotic warning system, and a tele-operated robot.

A Proposed Methodology for the Design of Electronic-mechanical Products - Michael Gustavo Montero 2004

Make Your Own PCBs with EAGLE: From Schematic Designs to Finished Boards - Simon Monk 2014-08-05

Design custom printed circuit boards with EAGLE Learn how to make double-sided professional-quality PCBs from the ground up using EAGLE--the powerful, flexible design software. In this step-by-step guide, electronics guru Simon Monk leads you through the process of designing a schematic, transforming it into a PCB layout, and submitting standard Gerber files to a manufacturing service to create your finished board. Filled with detailed illustrations, photos, and screenshots, Make Your Own PCBs with EAGLE features downloadable example projects so you can get started right away. Install EAGLE Light Edition and discover the views and screens that make up an EAGLE project Create the schematic and board files for a simple LED project Find the right components and libraries for your projects Work with the Schematic Editor Lay out PCBs with through-hole components and with surface mount technology Build a sound level meter with a small amplifier and ten LEDs Generate Gerber design files to submit for fabrication Solder through-hole PCBs and SMD boards Design a plug-in Arduino shield Build a Raspberry Pi expansion board Automate repetitive tasks using scripts and User Language Programs Create your own libraries and parts and modify existing components

Aspencore Guide to Gallium Nitride - Maurizio Di Paolo Emilio 2021-01-20

As silicon reaches its theoretical performance limits for power electronics, industry is shifting toward wide-bandgap materials like Gallium Nitride (GaN), whose properties provide clear benefits in power converters for consumer and industrial electronics. In over 150 pages covering the technology, its applications, markets and future potential, this book delves into GaN technology and its importance for power electronics professionals engaged with its implementation in power devices. The properties of GaN, such as low leakage current, significantly reduced power losses, higher power density and the ability to tolerate higher operating temperatures, all from a device smaller than its silicon-only equivalent, provide design advantages allowing previously unimaginable application performance. As an alternative to silicon, GaN can provide clear benefits in power converters for consumer and industrial electronics; chargers for wireless devices, including 5G; driver circuits for motor control; and power switches in automotive and space applications.The book also explores why GaN-based devices hold the key to addressing the energy efficiency agenda, a key strategic initiative in increasingly power-reliant industries such as data centers, electric vehicles, and renewable energy systems. Highly efficient residential and commercial energy storage systems using GaN technology will enable distribution, local storage, and on-demand access to renewable energy. Continued progress in the battery market will lead to declining battery costs and the development of smaller batteries that pair with GaN technology-based converters and inverters. Thermal management is critical in power electronics, and high efficiency in higher-power systems is always a focus. With GaN, a 50% reduction in losses can be achieved, reducing the costs and area required to manage heat. The book delves into GaN's electrical characteristics and how these can be exploited in power devices. There are also chapters that cross into the key applications for GaN devices for several markets such as space, automotive, audio, motor control and data centers. Each chapter provides a comprehensive overview of the subject matter for anyone who wants to stay on the leading edge of power electronics.

MEMS Lorentz Force Magnetometers - Cesare Buffa 2017-07-04

This book deals with compasses for consumer applications realized in MEMS technology, to support location-based and orientation-based services in addition to ‘traditional’ functionalities based on navigation. Navigation is becoming a must-have feature in portable devices and the presence of a

compass also makes location-based augmented reality emerge, where a street map or a camera image could be overlaid with highly detailed information about what is in front of the user. To make these features possible both industries and scientific research focus on three axis magnetometers. The author describes a full path from specifications (driven by customers' needs/desires) to prototype and preparing the way to industrialization and commercialization. The presentation includes an overview of all the major steps of this research and development process, highlighting critical points and potential pitfalls, as well as how to forecast or mitigate them. Coverage includes system design, specifications fulfillment, design strategy and project development methodology, in addition to traditional topics such as microelectronics design, sensor design, development of an experimental setup and characterization. The author uses a practical approach, including pragmatic guidelines and design choices, while maintaining focus on the final target, prototyping in the direction of industrialization and mass production.

High-speed Digital Design - Howard W. Johnson 1993-01-01

Focused on the field of knowledge lying between digital and analog circuit theory, this new text will help engineers working with digital systems shorten their product development cycles and help fix their latest design problems. The scope of the material covered includes signal reflection, crosstalk, and noise problems which occur in high speed digital machines (above 10 megahertz). This volume will be of practical use to digital logic designers, staff and senior communications scientists, and all those interested in digital design.

Digital Logic Design - Brian Holdsworth 2002-11-01

New, updated and expanded topics in the fourth edition include: EBCDIC, Grey code, practical applications of flip-flops, linear and shaft encoders, memory elements and FPGAs. The section on fault-finding has been expanded. A new chapter is dedicated to the interface between digital components and analog voltages. *A highly accessible, comprehensive and fully up to date digital systems text *A well known and respected text now revamped for current courses *Part of the Newnes suite of texts for HND/1st year modules

The Printed Circuit Designer's Guide To... Secrets of High-Speed PCBs - Polar Instruments 2017-06-20

This book is a compilation of columns written by Martyn Gaudion, CEO of Polar Instruments, for 'The PCB Design Magazine' over several years. Martyn examines complex signal integrity challenges, modelling and measurement issues, transmission line theory as well as the effects of glass weave on signal integrity. Martyn also touches on the issues of laminate loss, differential insertion loss, impedance control and modelled vs. measured results.

Build Your Own Printed Circuit Board - Al Williams 2003-10-15

FREE PCB SOFTWARE! The EagleCAD light software inside does all the tasks described in this book -- schematic capture, layout, and autorouting. Run it on Windows or Linux. DESIGN TO PRODUCTION -- EVERYTHING YOU NEED TO MAKE YOUR OWN PCBs With Build Your Own Printed Circuit Board, you can eliminate or reduce your company's reliance on outsourcing to board houses, and cut costs significantly. Perfect for advanced electronics hobbyists as well, this easy-to-follow guide is by far the most up-to-date source on making PCBs. Complete in itself, the handbook even gives you PCB CAD software, on CD, ready to run on either Windows or Linux. (Some PCB software costs from $10,000 to $15,000!) STEP-BY-STEP DIRECTIONS, AND A PRACTICE RUNTHROUGH Written by a PCB designer and electronics expert, Build Your Own Printed Circuit Board gives you absolutely everything you need to design and construct a professional-looking prototype or production-ready PCB files with modern CAD tools. You get: * Instructions for every phase of project flow, from design schematics, sizing, layout, and autorouting fabrication * The latest in PCB tips, tricks, and techniques * Cutting-edge tactics for shrinking boards * Guidance on generating CAM (computer-aided manufacturing) files to produce the board yourself or send it out * A sample project, demonstrating all the book's techniques, that you can build and use in practical applications * Discussions on using service bureaus to produce designs * Expert comparison of CAD program options THE BEST GUIDE TO BUILDING YOUR OWN PCBs!

Hacking the Xbox - Andrew Huang 2003
Provides step-by-step instructions on basic hacking techniques and reverse engineering skills along with information on Xbox security, hardware, and software.
Data Sources - 2000

The Printed Circuit Designer's Guide To... Thermal Management - American Standard Circuits 2020-10-06
Thermal management is one of the fastest-growing areas of the PCB segment, far outpacing the projected growth for the overall industry. While demand was originally driven by high-power telecommunication and mil-aero applications, it has rapidly expanded to include automotive, consumer electronics, and medical sectors.Written by Anaya Vardya, this book serves as a desk reference for designers on the most current thermal management techniques and methods from a PCB fabrication perspective, including a case study on an extreme mixed-technology design. Vardya also shares considerations designers should discuss with their PCB fabricators to ensure manufacturability, cost-effective solutions, and successful product launches.PCB designers and design engineers, both new and veteran, will learn how to "beat the heat" by gaining a thorough understanding of thermal management design processes.
Applications in Electronics Pervading Industry, Environment and Society - Sergio Saponara 2019-05-10
This book provides a thorough overview of cutting-edge research on electronics applications relevant to industry, the environment, and society at large. It covers a broad spectrum of application domains, from automotive to space and from health to security, while devoting special attention to the use of embedded devices and sensors for imaging, communication and control. The book is based on the 2018 ApplePies Conference, held in Pisa, Italy in September 2018, which brought together researchers and stakeholders to consider the most significant current trends in the field of applied electronics and to debate visions for the future. Areas addressed by the conference included information communication technology; biotechnology and biomedical imaging; space; secure, clean and efficient energy; the environment; and smart, green and integrated transport. As electronics technology continues to develop apace, constantly meeting previously unthinkable targets, further attention needs to be directed toward the electronics applications and the development of systems that facilitate human activities. This book, written by industrial and academic professionals, represents a valuable contribution in this endeavor.
Power Management in Mobile Devices - Findlay Shearer 2011-04-01
Sealed Lead Acid...Nickel Cadmium...Lithium Ion... How do you balance battery life with performance and cost? This book shows you how! Now that "mobile" has become the standard, the consumer not only expects mobility but demands power longevity in wireless devices. As more and more features, computing power, and memory are packed into mobile devices such as iPods, cell phones, and cameras, there is a large and growing gap between what devices can do and the amount of energy engineers can deliver. In fact, the main limiting factor in many portable designs is not hardware or software, but instead how much power can be delivered to the device. This book describes various design approaches to reduce the amount of power a circuit consumes and techniques to effectively manage the available power. Power Management Advice On: •Low Power Packaging Techniques •Power and Clock Gating •Energy Efficient Compilers •Various Display Technologies •Linear vs. Switched Regulators •Software Techniques and Intelligent Algorithms * Addresses power versus performance that each newly developed mobile device faces * Robust case studies drawn from the author's 30 plus years of extensive real world experience are included * Both hardware and software are discussed concerning their roles in power
Electric Relays - Vladimir Gurevich 2018-10-03
Electric relays pervade the electronics that dominate our world. They exist in many forms, fulfill many roles, and each have their own behavioral nuances and peculiarities. To date, there exists no comprehensive reference surveying the broad spectrum of electric relays, save one-Electric Relays:

Principles and Applications. This ambitious work is not only unique in its scope, but also in its practical approach that focuses on the operational and functional aspects rather than on theory and mathematics. Accomplished engineer Dr. Vladimir Gurevich builds the presentation from first principles, unfolding the concepts and constructions via discussion of their historical development from the earliest ideas to modern technologies. He uses a show-not-tell approach that employs nearly 1300 illustrations and reveals valuable insight based on his extensive experience in the field. The book begins with the basic principles of relay construction and the major functional parts, such as contact and magnetic systems. Then, it devotes individual chapters to the various types of relays. The author describes the principles of function and construction for each type as well as features of several relays belonging to a type that operate on different principles. Remarkably thorough and uniquely practical, Electric Relays: Principles and Applications serves as the perfect introduction to the plethora of electric relays and offers a quick-reference guide for the experienced engineer.

Analog Design and Simulation Using OrCAD Capture and PSpice - Dennis Fitzpatrick 2011-11-16

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 Book - Andrei Vladimirescu 1994-01-14

Extremely easy-to-follow due to its natural progression tutorial approach on how to advance from the solution of typical electrical and electronic circuit examples by hand, followed by a SPICE verification through the discussion of simulation results. The first part contains relevant data about SPICE in order to analyze both linear passive and electronic circuits. The latter half provides more detail on such topics as distortion models and analysis, basic algorithms in SPICE, analysis option parameters and how to direct SPICE to find a solution when it fails.

Printed Circuit Boards - R. S. Khandpur 2005-09-07

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.

The Hitchhiker's Guide to PCB Design - Ema Design Automation 2019-02-19

Want to create a solid, manufacturable PCB the first time? Well, you're in luck. Get the only book you will ever need to upgrade your PCB knowledge and launch your career to new heights. Forget the school of hard-knocks and learn all the things industry experts wish they knew when starting out. With over 100 pages of content including checklists, pro-tips, and detailed illustrations, you'll gain decades of wisdom in a fraction of the time. Read the Hitchhikers Guide to PCB Design to be entertained and learn - How to create a robust and manufacturable PCB layout beyond routing the rats - Why it's important to incorporate DFX (Design for Excellence) and the many topics it covers - Who your project stakeholders are and why their involvement is essential for design success - PCB Design best practices you need to know and more BONUS- You can get a FREE digital download of the guide by visiting the EMA Design Automation website.