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Design Engineer's Reference Guide

Mathematics, Mechanics, and Thermodynamics

CRC Press Author Keith L. Richards believes that design engineers spend only a small fraction of time actually designing and drawing, and the remainder of their time finding relevant design information for a specific method or problem. He draws on his own experience as a mechanical engineering designer to offer assistance to other practicing and student engineers facing the same struggle. Design Engineer's Reference Guide: Mathematics, Mechanics, and Thermodynamics provides engineers with a roadmap for navigating through common situations or dilemmas. This book starts off by introducing reference information on the coverage of differential and integral calculus, Laplace's transforms, determinants, and matrices. It provides a numerical analysis on numerical methods of integration, Newton-Raphson's methods, the Jacobi iterative method, and the Gauss-Seidel method. It also contains reference information, as well as examples and illustrations that reinforce the topics of most chapter subjects. A companion to the Design Engineer's Handbook and Design Engineer's Case Studies and Examples, this textbook covers a range of basic engineering concepts and common applications including: • Mathematics • Numerical analysis • Statics and kinematics • Mechanical vibrations • Control system modeling • Basic thermodynamics • Fluid mechanics and linkages An entry-level text for students needing to understand the underlying principles before progressing to a more advanced level, Design Engineer's Reference Guide: Mathematics, Mechanics, and Thermodynamics is also a basic reference for mechanical, manufacturing, and design engineers.

Kelly L. Murdock's Autodesk 3ds Max 2019 Complete Reference Guide

SDC Publications Kelly L. Murdock's Autodesk 3ds Max 2019 Complete Reference Guide is a popular book among users new to 3ds Max and is used extensively in schools around the globe. The success of this book is found in its simple easy-to-understand explanations coupled with its even easier to follow tutorials. The tutorials are laser focused on a specific topic without any extra material, making it simple to grasp difficult concepts. The book also covers all aspects of the software, making it a valuable reference for users of all levels. The Complete Reference Guide is the ultimate book on 3ds Max, and like Autodesk's 3D animation software, it just gets better and better with each release. Whether you're new to 3ds Max or an experienced user, you'll find everything you need in this complete resource. The book kicks off with a getting started section, so beginners can jump in and begin working with 3ds Max right away. Experienced 3ds Max users will appreciate advanced coverage of features like crowd simulation, particle systems, radiosity, MAXScript and more. Over 150 tutorials - complete with before and after files - help users at all levels build real world skills.

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Kelly L. Murdock's Autodesk 3ds Max 2021 Complete Reference Guide

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Kelly L. Murdock's Autodesk 3ds Max 2020 Complete Reference Guide

SDC Publications Kelly L. Murdock's Autodesk 3ds Max 2020 Complete Reference Guide is a popular book among users new to 3ds Max and is used extensively in schools around the globe. The success of this book is found in its simple easy-to-understand explanations coupled with its even easier to follow tutorials. The tutorials are laser focused on a specific topic without any extra material, making it simple to grasp difficult concepts. The book also covers all aspects of the software, making it a valuable reference for users of all levels. The Complete Reference Guide is the ultimate book on 3ds Max, and like Autodesk's 3D animation software, it just gets better and better with each release. Whether you're new to 3ds Max or an experienced user, you'll find everything you need in this complete resource. The book kicks off with a getting started section, so beginners can jump in and begin working with 3ds Max right away. Experienced 3ds Max users will appreciate advanced coverage of features like crowd simulation, particle systems, radiosity, MAXScript and more. Over 150 tutorials - complete with before and after files - help users at all levels build real world skills. What is Autodesk 3ds Max? Autodesk 3ds Max is a popular 3D modeling, animation, rendering, and compositing software widely used by game developers and graphic designers in the film and television industry. What you'll learn Discover all the new features and changes in 3ds Max 2020 Learn how to reference, select, clone, group, link and transform objects Explore 3D modeling and how to apply materials and textures Set impressive scenes with backgrounds, cameras and lighting Master smart techniques for rendering, compositing and animating Create characters, add special effects, and finish with dynamic animations such as hair and cloth Get comfortable with key tools such as Track View, Quicksilver, mental ray®, Space Warps, MassFX and more Who this book is for This comprehensive reference guide not only serves as a reference for experienced users, but it also easily introduces beginners to this complex software. Packed with expert advice from popular author Kelly Murdock, it begins with a getting started section to get you up and running, then continues with more than 150 step-by-step tutorials, in depth coverage of advanced features, and plenty of tips and timesavers along the way. Section Videos Each section of the book has a corresponding video. In each video author Kelly Murdock gives a brief overview of the contents of that section in the book, and covers some of the basics from the chapters within that section.

A Geek Girl's Guide to Electronics and the Internet of Things

[John Wiley & Sons](#) A straightforward demystification of electronics and the Internet of Things A Geek Girl's Guide to Electronics and the Internet of Things breaks down and simplifies electronics and the Internet of Things for the layperson. Written by a leading technical school instructor with a talent for bringing complex topics to everyday people, this book provides concrete examples and practical advice for anyone interested in building, repairing, or studying electronics and functional Internet of Things (IoT) devices. A Geek Girl's Guide to Electronics and the Internet of Things explores a wide range of topics including, among others: Ohm's and Watt's Law Series and Parallel Circuits Diodes, transistors, capacitors and relays Motors and Pulse with Modulation Using light to control electricity Photovoltaic Cells and Transducers Enhancing circuits with Arduino Connecting circuits to networks The distinguished author's website includes videos to help you build and enhance projects, along with deeper information to enrich your learning. Additionally, the book goes beyond theory and teaches readers how circuit components become IoT devices and provide the data that drive our modern world. The combination of hands-on activities and solid pedagogy ensures long-lasting retention of the material for everyone.

Kelly L. Murdock's Autodesk 3ds Max 2015 Complete Reference Guide

[SDC Publications](#) Kelly L. Murdock's Autodesk 3ds Max 2015 Complete Reference Guide is a popular book among users new to 3ds Max and is used extensively in schools around the globe. The success of this book is found in its simple easy-to-understand explanations coupled with its even easier to follow tutorials. The tutorials are laser focused on a specific topic without any extra material, making it simple to grasp difficult concepts. The book also covers all aspects of the software, making it a valuable reference for users of all levels. The Complete Reference Guide is the ultimate book on 3ds Max, and like Autodesk's 3D animation software, it just gets better and better with each release. Whether you're new to 3ds Max or an experienced user, you'll find everything you need in this complete resource. The book kicks off with a getting started section, so beginners can jump in and begin working with 3ds Max right away. Experienced 3ds Max users, will appreciate advanced coverage of features like crowd simulation, particle systems, radiosity, MAXScript and more. Over 150 tutorials - complete with before and after files - help users at all levels build real world skills.

Autodesk Fusion 360 User Guide

Serdar Hakan ACADEMY

[Serdar Hakan DÜZGÖREN](#) Getting started with Fusion 360 Learn how Autodesk® Fusion 360® can help you bring your designs to life. What is Fusion 360? Fusion 360 is a cloud-based CAD/CAM/CAE tool for collaborative product development. Fusion 360 combines fast and easy organic modeling with precise solid modeling, to help you create manufacturable designs. Watch this short video to learn about what you can achieve with Fusion 360. Where your Fusion 360 data is stored All Fusion 360 design data is stored in the cloud. You can securely access your Fusion 360 data from anywhere. You can also use group projects to control who else can access your design data and collaborate with you. Tip: If you do not have internet access, you can still use Fusion 360 in offline mode. Learn how to work in offline mode. Learn more about design data management in Fusion 360. Design strategies Where Fusion 360 fits in the design process Fusion 360 connects your entire product development process in a single cloud-based platform for Mac and PC. Explore and refine the form of your design with the sculpting, modeling, and generative design tools. Since your Fusion 360 designs are stored and shared with your team in the cloud, you can iterate on your design ideas in real time, which increases team productivity. You can optimize and validate your design with assemblies, joint and motion studies, and simulations. Then communicate your design through photorealistic renderings and animations.

Power Electronics and Motor Drives

Advances and Trends

[Academic Press](#) Power Electronics and Motor Drives: Advances and Trends, Second Edition is the perfect resource to keep the electrical engineer up-to-speed on the latest advancements in technologies, equipment and applications. Carefully structured to include both traditional topics for entry-level and more advanced applications for the experienced engineer, this reference sheds light on the rapidly growing field of power electronic operations. New content covers converters, machine models and new control methods such as fuzzy logic and neural network control. This reference will help engineers further understand recent technologies and gain practical understanding with its inclusion of many industrial applications. Further supported by a glossary per chapter, this book gives engineers and researchers a critical reference to learn from real-world examples and make future decisions on power electronic technology and applications. Provides many practical examples of industrial applications Updates on the newest electronic topics with content added on fuzzy logic and neural networks Presents information from an expert with decades of research and industrial experience

AdS/CFT Duality User Guide

[Springer](#) This book describes applications of the AdS/CFT duality to the "real world." The AdS/CFT duality is an idea that originated from string theory and is a powerful tool for analyzing strongly-coupled gauge theories using classical gravitational theories. In recent years, it has been shown that one prediction of AdS/CFT is indeed close to the experimental result of the real quark-gluon plasma. Since then, the AdS/CFT duality has been applied to various fields of physics; examples are QCD, nuclear physics, condensed-matter physics, and nonequilibrium physics. The aim of this book is to provide background materials such as string theory, black holes, nuclear physics, condensed-matter physics, and nonequilibrium physics as well as key applications of the AdS/CFT duality in a single volume. The emphasis throughout the book is on a pedagogical and intuitive approach focusing on the underlying physical concepts. It also includes step-by-step computations for important results, which are useful for beginners. This book will be a valuable reference work for graduate students and researchers in particle physics, general relativity, nuclear physics, nonequilibrium physics, and condensed-matter physics.

Schematic Design (SD) ARE Mock Exam (Architect Registration Exam)

ARE Overview, Exam Prep Tips, Graphic Vignettes, Solutions and Explanations

[ArchiteG, Inc.](#) This book provides an ARE overview, resources, exam preparation and exam taking techniques, tips and guide, a realistic and complete set of Mock Exam, solutions, and explanations for the Schematic Design (SD) division of the ARE. This book covers the following subjects: 1.ARE, IDP, and education requirements 2.ARE content, format, and preparation strategies 3.Codes and regulations 4.Environmental Issues 5.Building layout 6.Interior layout 7.Valuable strategies and tips for creating passing solutions 8.Sample passing solutions with explanations 9.Many step-by-step screenshots to show you the actual NCARB commands with graphic images 10.Time saving tips 11.Strategies to avoid NCARB traps This book includes four graphic vignettes in the same difficulty level and format as the real exam. It will help you pass the SD division of the ARE and become a licensed architect! About the author: Gang Chen holds a master's degree from the School of Architecture, University of Southern California (USC), Los Angeles, and a bachelor's degree from the School of Architecture, South China University of Technology. He has more than 20 years of professional experience. Many of the projects he was in charge of or participated in have been published extensively in Architecture, Architectural Record, The Los Angeles Times, The Orange County Register, and more. He has worked on a variety of unusual projects, including well-known, large-scale healthcare and hospitality projects with over one billion dollars in construction costs, award-winning school designs, highly-acclaimed urban design and streetscape projects, multifamily housing, high-end custom homes, and regional and neighborhood shopping centers. Gang Chen is a LEED AP BD+C and a licensed architect in California. He is also the internationally acclaimed author of other fascinating books, including Building Construction, Planting Design Illustrated and the LEED Exam Guides Series, which includes one guidebook for each of the LEED exams. For more information, visit www.GreenExamEducation.com

Remediation Technologies Screening Matrix and Reference Guide

Master's/Ph.D. Thesis: A Step-by-Step Writing Guide

[Mitchell P. Jones](#) Definitive advice and recommendations on thesis writing can be hard to come by and even harder to understand. Look no further for step-by-step support to guide you through the thesis writing process with concrete instructions and examples. Mitchell P. Jones' Master's/Ph.D. Thesis: A Step-by-Step Writing Guide is a must-have for anyone about to culminate their master's or doctoral studies. In clear, concise and precise language, Jones lays out the essential steps for compiling a highly scoped and impactful master's or Ph.D. thesis. Comprehensive and firmly instructional, this guide features step-by-step directions, content and structure suggestions for all thesis chapters in both monograph and publication-based theses with useful examples, tips on how to set up and caption effective tables, graphs and schematics, and equation and unit formatting principles. Featuring an easy-to-navigate approach, shortcuts for efficient referencing, titling and editing are also provided in addition to insight on what students can expect during the thesis examination process. With no assumed knowledge required it caters to all levels of experience and is the type of investment every advanced science student should make to maximise their chances of success. This guide is specifically formatted for students writing a master's or Ph.D. thesis. Guides for bachelor's theses, journal articles, conference papers and book chapters are also available as part of the Scientific Writing for Beginners series.

Scenic Automation Handbook

[Taylor & Francis](#) Scenic automation has earned a reputation of being complicated and cantankerous, a craft best left to the elite of our industry. Not sure of the difference between a VFD, PLC, or PID? If you have dreamed of choreographing scene changes with computerized machinery, but get lost in the technical jargon the Scenic Automation Handbook will guide you along the road to elegant automation. Adopting a pragmatic approach, this book breaks down any automation system into five points, known as the Pentagon of Power. Breaking down a dauntingly complex system into bite-size pieces makes it easy to understand how components function, connect, and communicate to form a complete system. Presenting the fundamental behaviors and functions of Machinery, Feedback Sensors, Amplifiers, Controls, and Operator Interfaces, the Scenic Automation Handbook demystifies automation, reinforcing each concept with practical examples that can be used for experimentation. Automation is accessible - come along and learn how!

Publishing in Science: A Step-by-Step Guide

[Mitchell P. Jones](#) Penning and publishing competitive scientific research depends largely on efficient and impactful scientific writing and good publication strategy. Look no further for your guide to the basics. *Mitchell P. Jones' Publishing in Science: A Step-by-Step Guide* is a must-have for those new to publishing journal articles, conference papers, and book chapters – especially Ph.D. students. In clear, concise and precise language, Jones lays out the essential steps for compiling a highly scoped and impactful manuscript. Comprehensive and firmly instructional, this guide features step-by-step directions, content and structure suggestions with useful examples, tips on how to set up and caption effective tables, graphs and schematics, and equation and unit formatting principles. Featuring an easy-to-navigate approach, it also introduces and contrasts each publication type, provides shortcuts for efficient referencing, titling and editing and details what to expect during the publishing process. With no assumed knowledge required, it is the type of investment any writer of scientific papers should make to maximise their chances of success. This guide is specifically formatted for those interested in writing journal articles, conference papers or book chapters. Guides for bachelor's, master's and Ph.D. theses, are also available as part of the Scientific Writing for Beginners series.

Firearms Guide 3rd Edition

The Most Extensive Firearms Reference Guide in the World!

[Impressum Media Inc](#) FIREARMS GUIDE 3rd EDITION Five products on one DVD every shooter must have: 1. Reference guide that presents over 55,000 models of Firearms, Airguns and Ammo from 500 manufacturers worldwide (38 countries)! • Now with Military Firearms - machine guns, assault rifles, submachine guns and automatic pistols. • Computer searchable with 14 different search criteria! Find any gun in a second! • Presents models with Tech Specs - Hi-Resolution Color Pictures - Features - Ballistics - Prices! • Over 30,000 high-resolution color pictures in resolution up to 6636 x 1492! • Up to 12 pictures per model! Zoom in to see the smallest details! • Guns are presented in different finishes, stock types and stock materials! • Exclusive U.S. and EU custom guns with price tags up to \$1,000,000! • Interlinked ammo and gun database. Check the stopping power of each gun with one click. 2. Schematics Library with over 3,000 high resolution gun schematics with parts lists from 268 manufacturers! • Search for a specific gun schematic by manufacturer, then choose the model and zoom in to see the smallest gun parts and print out any schematics 3. FFL Locator - Database of over 62,000 gun dealers in the USA with phone numbers and addresses. When you need a gun dealer find them by type of license, by state and by ZIP code 4. 500 Printable Targets - Print as many as you like! Shoot as many as you like! Choose from a great selection: game animals, silhouettes, crosshairs, sight-ins, fun-to-shoot objects, etc. Both black & white and color targets! 5. US-EU Ammo Caliber Chart - No more hassle trying to figure out which EU ammo caliber is which US ammo caliber. We've figured it out for you, from US to EU and EU to US - works both ways!

A User's Guide to Vacuum Technology

[John Wiley & Sons](#) In the decade and a half since the publication of the Second Edition of *A User's Guide to Vacuum Technology* there have been many important advances in the field, including spinning rotor gauges, dry mechanical pumps, magnetically levitated turbo pumps, and ultraclean system designs. These, along with improved cleaning and assembly techniques have made contamination-free manufacturing a reality. Designed to bridge the gap in both knowledge and training between designers and end users of vacuum equipment, the Third Edition offers a practical perspective on today's vacuum technology. With a focus on the operation, understanding, and selection of equipment for industrial processes used in semiconductor, optics, packaging, and related coating technologies, *A User's Guide to Vacuum Technology, Third Edition* provides a detailed treatment of this important field. While emphasizing the fundamentals and touching on significant topics not adequately covered elsewhere, the text avoids topics not relevant to the typical user.

Programming the PIC Microcontroller with MBASIC

[Elsevier](#) The Microchip PIC family of microcontrollers is the most popular series of microcontrollers in the world. However, no microcontroller is of any use without software to make it perform useful functions. This comprehensive reference focuses on designing with Microchip's mid-range PIC line using MBASIC, a powerful but easy to learn programming language. It illustrates MBASIC's abilities through a series of design examples, beginning with simple PIC-based projects and proceeding through more advanced designs. Unlike other references however, it also covers essential hardware and software design fundamentals of the PIC microcontroller series, including programming in assembly language when needed to supplement the capabilities of MBASIC. Details of hardware/software interfacing to the PIC are also provided. **BENEFIT TO THE READER:** This book provides one of the most thorough introductions available to the world's most popular microcontroller, with numerous hardware and software working design examples which engineers, students and hobbyists can directly apply to their design work and studies. Using MBASIC, it is possible to develop working programs for the PIC in a much shorter time frame than when using assembly language. Offers a complete introduction to programming the most popular microcontroller in the world, using the MBASIC compiler from a company that is committed to supporting the book both through purchases and promotion Provides numerous real-world design examples, all carefully tested

Scientific Writing: A Complete Guide

[Mitchell P. Jones](#) Be it academia or industry, if you're destined for a career in science and technology scientific writing is an essential skill that can make your competence shine or cloud it completely. Consolidate your knowledge with this complete guide. *Mitchell P. Jones' Scientific Writing: A Complete Guide* is an essential overview of scientific writing for theses, journal articles, conference papers and book chapters. In clear, concise and precise language, Jones lays out the basic steps for compiling a highly scoped and impactful manuscript. Comprehensive and firmly instructional, this guide features step-by-step directions, content and structure suggestions with useful examples, tips on how to set up and caption effective tables, graphs and schematics, and equation and unit formatting principles. It also introduces and contrasts each publication type, provides shortcuts for efficient referencing, titling and editing and details what to expect during the thesis examination and publishing processes. This guide contains all content in the Scientific Writing for Beginners series including bachelor's, master's and Ph.D. theses, journal articles, conference papers and book chapters. It is intended for the intermediate reader seeking an overview of all content. Beginners are directed to the specifically formatted sub guides available for each document type.

InfoWorld

InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

DTNSRDC

A User's Guide to Ellipsometry

[Academic Press](#) This book is specifically designed for the user who wishes expanded use of ellipsometry beyond the relatively limited number of turn-key applications. The book provides a concise discussion of theory and instrumentation before describing how to use optical parameters to determine material properties and optical parameters for inaccessible substrates and unknown films, and how to measure extremely thin films. The book also addresses polysilicon, a material commonly used in the microelectronics industry, and the effect of substrate roughness. This book's concepts and applications are reinforced through the 14 case studies that illustrate specific applications of ellipsometry from the semiconductor industry as well as studies involving corrosion and oxide growth. Allows the user to optimize turn-key operation of ellipsometers and move beyond limited turn-key applications Provides comprehensive discussion of the measurement of film thickness and optical constants in film Discusses the trajectories of the ellipsometric parameters Δ and Ψ and how changes in the materials affect the parameter Includes 14 case studies to reinforce specific applications Includes three appendices for helpful references

Beginner's Guide to Reading Schematics, Fourth Edition

[McGraw-Hill Education](#) **TAB** 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. This updated resource shows how to interpret schematic diagrams—and design your own Written by an experienced engineer, this easy-to-follow TAB guide shows, step-by-step, how to navigate the roadmaps of electronic circuits and systems. Filled with new illustrations and DIY examples, the book clearly explains how to understand and create high-precision electronics diagrams. You will discover how to identify parts and connections, interpret element ratings, and apply diagram-based information in your own projects. *Beginner's Guide to Reading Schematics, Fourth Edition*, also contains valuable appendices covering symbols, resistor color codes, and parts suppliers. Up-to-date coverage includes: •Block, schematic, and pictorial diagrams •Resistors and capacitors •Inductors and transformers •Switches, relays, conductors, and cables •Diodes, transistors, Op amps, and logic gates •Electron tubes, cells, and batteries •Voltage dividers and reducers •Simple and complex circuits •Breadboards and wire wrapping •Electronics troubleshooting •Digital electronics and functional circuits •And much more

HVAC/R Terminology: A Quick Reference Guide

[ESCO Press](#) This one-of-a-kind HVAC/R technical reference guide incorporates all the HVAC/R technical terms used in the industry today, and is an indispensable resource for professionals dealing with electricity, controls, refrigeration cycle, heating, psychometrics, boilers, heat pumps, heat transfer, load calculations and more. Covers the entire industry, providing the most comprehensive collection of HVAC/R terms available in one concise location. For those just starting in and seasoned veterans of the HVAC/R industry. The 71 pages of appendices include common industry association abbreviations, business, computer and medical terminology; area of circles; color codes for resistors; CFM tables, decibel ratings & hazardous time exposure of common noises, duct sizing, conversion charts and much, much more.

The Software Encyclopedia

A Reference Guide for English Studies

Univ of California Press

PBS Beginners Guide to Reading Schematics 2/E

McGraw Hill Professional Discusses the symbols used in electronic schematic diagrams and explains how to interpret, draw, and use schematic diagrams.

Technical Manual

TM.

Fluorinated Coatings and Finishes Handbook

The Definitive User's Guide

William Andrew *Fluorinated Coatings and Finishes Handbook: The Definitive User's Guide, Second Edition*, addresses important, frequently posed questions by end-user design engineers, coaters, and coatings suppliers on fluorinated coatings and finishes, thus enabling them to achieve superior product qualities and shorter product and process development times. The book provides broad coverage of these fluorinated polymer coatings, including the best known PTFE, polytetrafluoroethylene, first trademarked as Teflon® and ePTFE (GoreTex®). Their inherent qualities of low surface tension, non-stick, low friction, high melting point, and chemical inertness make fluoropolymer coatings widely desirable across thousands of industrial and consumer applications, but these properties also make it difficult to convert fluoropolymers to coatings that have sufficient adhesion to the substrate to be protected. In this book, readers learn how fluoropolymer coatings are used and made, about their pigments and fillers, binders, dispersion processes, additives, and solvents. The book includes substrate preparation, coating properties, baking and curing processes, performance tests, applications, and health and safety. Provides a practical handbook that covers the theory and practice of fluorinated coatings, including the structure and properties of binders and how to get a non-stick coating to stick to the substrate Covers liquid and power fluorocoatings, their applications methods, curing and baking processes, and their commercial end uses Presents detailed discussions of testing methods related to fluorocoatings, common coating defects, how they form, how to eliminate them, and the health and safety aspects of using and applying fluorocoatings Includes substrate preparation, coating properties, baking and curing processes, performance tests, applications, and health and safety

Illustrated Guide to the International Plumbing & Fuel Gas Codes

Craftsman Book Company Packed with plumbing isometrics and helpful illustrations, this guide makes clear the code requirements for installing materials for plumbing and gas systems. Includes code tables for pipe sizing and fixture units, and code requirements for just about all areas of plumbing, from water supply and vents to sanitary drainage systems. Covers the principles and terminology of the code, how the various systems work and are regulated, and code-compliance issues you'll likely encounter on the job.

Sugar: User's Guide To Sucrose

Springer Science & Business Media Written for the food scientist, and food product developer, this reference manual discusses the physical and chemical properties of sucrose and its contribution to product flavour. Aspects covered include the history of available sugar sources, from naturally formed sugar in plants to the commercially developed, high quality product used in the food industry. The manufacture of refined sugar from both beet and cane plants is also discussed. Each chapter contains a reference list for more in-depth coverage of chapter subjects.

A User's Guide to the Meade LXD55 and LXD75 Telescopes

Springer Science & Business Media This book offers a comprehensive introductory guide to "choosing and using" a series LXD55 or LXD75 computer-controlled ("goto") telescope, containing a wealth of useful information for both beginners and more advanced practical amateur astronomers. The manufacturer's manuals are not nearly detailed enough to be of real help to beginners. No other book offers advanced techniques for more experienced LXD series users.

Fabricating Printed Circuit Boards

Newnes Jon Varteresian is owner of JV Enterprises, a company specializing in the design and manufacture of printed circuit boards. He offers numerous tips and techniques from his years of experience that guarantee a smooth and painless PC board design and fabrication process using his step by step approach. Numerous illustrations and photographs demonstrate each step of the process. Topics covered in the book include: safety issues, schematic capture, circuit placement and routing, making printed circuit boards, and plans for projects. An extensive resource list and glossary are also provided. *Gives a complete overview of the printed circuit board design process *Describes how to produce printed circuit boards in small quantities (ideal for prototypes), with an emphasis on safety *Author is owner a company specializing in the design and manufacture of printed circuit boards

Guide to FPGA Implementation of Arithmetic Functions

Springer Science & Business Media This book is designed both for FPGA users interested in developing new, specific components - generally for reducing execution times -and IP core designers interested in extending their catalog of specific components. The main focus is circuit synthesis and the discussion shows, for example, how a given algorithm executing some complex function can be translated to a synthesizable circuit description, as well as which are the best choices the designer can make to reduce the circuit cost, latency, or power consumption. This is not a book on algorithms. It is a book that shows how to translate efficiently an algorithm to a circuit, using techniques such as parallelism, pipeline, loop unrolling, and others. Numerous examples of FPGA implementation are described throughout this book and the circuits are modeled in VHDL. Complete and synthesizable source files are available for download.

Solar Energy Computer Models Directory

Popular Science

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

Program Description and User Manual for SSARR, Streamflow Synthesis and Reservoir Regulation

Program 724-K5-G0010

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