

Signals Systems Demystified

Learn BIOPHYSICS without expending a lot of ENERGY! Interested in unraveling the physics of living things? Here's your starting point. Biophysics Demystified is the fast and easy way to understand this fascinating topic. Written in a step-by-step format, this practical guide begins with an introduction to the science of biophysics, covering biophysical techniques and applications. Next, you'll learn the principles of physics, biology, and chemistry required to understand biophysics, including free energy, entropy, and statistical mechanics. Biomolecules and the forces that influence their structure and conformation are also covered, as are protein, nucleic acid, and membrane biophysics. Detailed examples and concise explanations make it easy to understand the material, and end-of-chapter quizzes and a final exam help reinforce key concepts. It's a no-brainer! You'll get: Molecular, subcellular, physiological, anatomical, and environmental biophysics The laws of thermodynamics as they apply to biophysical systems Forces affecting conformation in biological molecules The composition and structure of carbohydrates, lipids, proteins, and nucleic acids The fluid mosaic model Simple enough for a beginner, but challenging enough for an advanced student, Biophysics Demystified makes this interdisciplinary subject easy to master.

MULTIPLY your chances of understanding DISCRETE MATHEMATICS If you're interested in learning the fundamentals of discrete mathematics but can't seem to get your brain to function, then here's your solution. Add this easy-to-follow guide to the equation and calculate how quickly you learn the essential concepts. Written by award-winning math professor Steven Krantz, Discrete Mathematics Demystified explains this challenging topic in an effective and enlightening way. You will learn about logic, proofs, functions, matrices, sequences, series, and much more. Concise explanations, real-world examples, and worked equations make it easy to understand the material, and end-of-chapter exercises and a final exam help reinforce learning. This fast and easy guide offers: Numerous figures to illustrate key concepts Sample problems with worked solutions Coverage of set theory, graph theory, and number theory Chapters on cryptography and Boolean algebra A time-saving approach to performing better on an exam or at work Simple enough for a beginner, but challenging enough for an advanced student, Discrete Mathematics Demystified is your integral tool for mastering this complex subject.

The fast and easy way to learn signals and systems Get a working knowledge of signal processing and systems—even if you don't have formal training, unlimited time, or a genius IQ. Signals and Systems Demystified offers an effective, illuminating, and entertaining way to learn this essential electrical engineering subject. First, you'll learn methods used to calculate energy and power in signals. Next, you'll study signals in the frequency domain using Fourier analysis. Other topics covered include amplitude, frequency, and phase modulation, spectral analysis, convolution, the Laplace transform, and the z-transform. Packed with hundreds of sample equations and explained solutions, and featuring end-of-chapter quizzes and a final exam, this book will teach you the fundamentals of signals and systems in no time at all. Simple enough for a beginner, but challenging enough for an advanced student, Signals and Systems Demystified is your shortcut to mastering this complex subject. This hands-on, self-teaching text offers: An easy way to understand signal processing and systems Hundreds of worked examples with solutions A quiz at the end of each chapter to reinforce learning and pinpoint weaknesses A final exam at the end of the book No unnecessary technical jargon A time-saving approach to performing better on an exam or at work!

Voilà! Learning French just got a whole lot easier. Interested in learning or refreshing your French but feel your language skills are less than *extraordinaire*? No need to worry! With French Demystified you'll quickly build up your repertoire and be able to understand the language and communicate effectively. Beginning with familiar French cognates and a review of basic French pronunciation, this book covers key grammar fundamentals such as common verb tenses, nouns, pronouns, and gender. You'll build your French vocabulary with essential words and phrases and quickly master this challenging yet lyrical language. Test yourself at the end of every chapter for reinforcement that you're fast on your way to speaking, writing, and understanding French. This fast and easy guide features: Clear and straightforward explanations of French grammar fundamentals Numerous examples that place new words in practical context Helpful writing and speaking exercises that bring the French language to life Coverage of everyday topics as well as conversational expressions Quizzes at the end of each chapter to reinforce new material Simple enough for a beginner but challenging enough for a more advanced student, French Demystified is your shortcut to mastering this engaging language.

Accounting DeMYSTiFieD, 2nd Edition

Advanced Calculus Demystified

Ultra Wideband Demystified Technologies, Applications, and System Design Considerations

Hard Stuff Made Easy

Signals & Systems Demystified

Learn BIOCHEMISTRY without stressing out your brain CELLS Trying to understand the chemical processes of living organisms but having trouble metabolizing the complex concepts? Here's your lifeline! Biochemistry Demystified helps synthesize your understanding of this important topic. You'll start with a review of basic chemical concepts and a look at cell structures and cell division. Next, you'll study carbohydrates, lipids, proteins, nucleic acids, nucleotides, and enzymes. Glycolysis, the citric acid cycle, oxidative phosphorylation, and the control of chemical processes round out the coverage. Hundreds of examples and illustrations make it easy to understand the material, and end-of-chapter questions and a final exam help reinforce learning. This fast and easy guide offers: Numerous figures to illustrate key concepts Details on DNA and RNA Coverage of hormones and neurotransmitters A chapter on analytical techniques and bioinformatics A time-saving approach to performing better on an exam or at work Simple enough for a beginner, but challenging enough for an advanced student, Biochemistry Demystified is your key to mastering this vital life sciences subject.

Need to learn Minitab? Problem Solved! Get started using Minitab right way with help from this hands-on guide. Minitab Demystified walks you through essential Minitab features and shows you how to apply them to solve statistical analysis problems.

Featuring coverage of Minitab 16, this practical guide explores the Minitab interface and the full range of Minitab graphics, Distribution models, statistical intervals, hypothesis testing, and sample size calculations are clearly explained. The book covers modeling tools of regression and the design of experiments (DOE) as well as the industrial quality tools of measurement systems analysis, control charts, capability analysis, acceptance sampling, and reliability analysis. Detailed examples and concise explanations make it easy to understand the material, and end-of-chapter quizzes and a final exam help reinforce key concepts. It's a no-brainer! You'll learn about: Accessing powerful Minitab functions with the Minitab assistant Confidence, prediction, and tolerance intervals Designing and analyzing experiments with hard-to-change variables Statistical process control (SPC), Six Sigma applications, and quality control Predicting the economic impact of sampling Analyzing life data with additional variables Simple enough for a beginner, challenging enough for an advanced student, and thorough enough for a Six Sigma professional, Minitab Demystified is your shortcut to statistical analysis success!

Ultra Wideband Demystified: Technologies, Applications, and System Design Considerations is a comprehensive text for emerging high speed short range wireless technology of Ultra Wideband. It provides background concepts and information on evolving standards and their development efforts, radio technology, practical system design/implementation and real life applications. The book also deliberates on the regulatory frameworks, security aspects and power management techniques essential to Ultra Wideband usage in consumer devices like portable handheld mobile devices. Important topics as UWB common radio usage for adapting to different existing/new applications and upper layer protocols like Wireless USB are also discussed.ContentsAbstract :- Introduction to Short Range Wireless;• Introduction to Ultra Wideband;• Evolution of UWB Standards;• Physical Layer;• Medium Access Layer;• Advanced MAC Features;• UWB System Design;• Adaptation to Multiple Applications;• Wireless USB;• Converging Marketplace; ReferencesForeword"This book is very timely, unique and fresh in its approach, coming from engineers who have been involved in system design and standard development stages. In particular, the book stands out amongst other literature available because it highlights system designer's viewpoints and because of it covering the whole gamut of technology from practitioner's viewpoints ... I would strongly recommend this book to System Designers, Practicing Engineers, Researchers in Academia and Industry, Product Marketing and Technical strategists for a comprehensive reading on the emerging UWB technologies. I commend Sunil Jogi and Manoj Choudhary for a very timely contribution."Bart Vertenten Chief Architect Connectivity, NXP Semiconductors

Learn what happens behind the scenes of operating systems Find out how operating systems work, including Windows, Mac OS X, and Linux. Operating Systems Demystified describes the features common to most of today's popular operating systems and how they handle complex tasks. Written in a step-by-step format, this practical guide begins with an overview of what operating systems are and how they are designed. The book then offers in-depth coverage of the boot process; CPU management; deadlocks; memory, disk, and file management; network operating systems; and the essentials of system security. Detailed examples and concise explanations make it easy to understand even the technical material, and end-of-chapter quizzes and a final exam help reinforce key concepts. It's a no-brainer! You'll learn about: Fundamentals of operating system design Differences between menu- and command-driven user interfaces CPU scheduling and deadlocks Management of RAM and virtual memory Device management for hard drives, CDs, DVDs, and Blu-ray drives Networking basics, including wireless LANs and virtual private networks Key concepts of computer and data security Simple enough for a beginner, but challenging enough for an advanced student, Operating Systems Demystified helps you learn the essential elements of OS design and everyday use.

Biochemistry Demystified

Dosage Calculations Demystified

German Conversation Demystified

String Theory Demystified

Ethics DeMYSTiFieD

Over the years, MATLAB has evolved into a powerful tool that provides assistance to professionals, scientists and engineers in diversifying their areas of expertise. Teachers and students alike have accepted the fact that very few choices exist to replace MATLAB as a tool that helps enhance the ability to understand and visualize. The effort here is to help the fledgling learner know the basic ideas and principles behind programming in MATLAB and the application of the vast storehouse of tools available in the library and supporting documentation.

Learn cutting-edge MULTIMEDIA skills! Discover how to create impressive multimedia projects using state-of-the-art tools and techniques. Multimedia Demystified is filled with information on the latest technologies, as well as design and production guidelines. This practical guide provides a background on multimedia and then delves into the elements that make up a successful multimedia project. You'll learn about software and hardware tools, digital photography, sound editing, web authoring with HTML, vector graphics, file formats, computer animation, and much more. Detailed examples and concise explanations make it easy to understand the material, and end-of-chapter quizzes and a final exam help reinforce key concepts. It's a no-brainer! You'll learn about: Graphics, images, text, and typography 2D and 3D animation Music, sound effects, and video Authoring for multimedia functionality Software and hardware Delivering the final project to the intended audience Simple enough for a beginner, but challenging enough for an advanced student, Multimedia Demystified helps you master this marketable skill.

James D. Broesch is a staff engineer for General Atomics, where he is responsible for the design and development of several advanced control systems used on fusion control programs. He also teaches classes in signal processing and hardware design at the University of California-San Diego. · Integrated book/software package allows readers to simulate digital signal processing (DSP) situations and experiment with effects of different DSP techniques. · Gives an applications-oriented approach to DSP instead of a purely mathematical one. · The accompanying CD includes a DSP "calculator" to help solve design problems

The CLEAR and ACCURATE way to navigate MEDICAL CHARTING Trying to chart a course through the complex task of keeping patient records? Here's your lifeline! Medical Charting Demystified gives you the tools you need to prepare and update both computerized and written charts. You'll learn about chart components, what to write in a chart, and how to correct errors. Medical Charting Demystified covers entering vital signs, assessments, test results, medications, procedures, patient care plans, and more. Details on the legal aspects of medical charting, including confidentiality, HIPAA, malpractice, and informed consent, are also included. Hundreds of examples and illustrations make it easy to understand the material, and end-of-chapter quizzes and a final exam help reinforce learning. This fast and easy guide offers: Coverage of the five common charting systems--narrative, problem-oriented, problem-intervention-evaluation, FOCUS, and charting by exception Details on the MAR and the KARDEX An overview of computer charting software A time-saving approach to performing better on an exam or at work Simple enough for a beginner, but challenging enough for an advanced student, Medical Charting Demystified is your key to mastering this vital nursing skill.

English Grammar Demystified

Demystifying Mixed Signal Test Methods

Digital Signal Processing Demystified

Biophysics DeMYSTiFied

Multimedia Demystified

Your solution to mastering fluid mechanics Need to learn about the properties of liquids and gases the pressures and forces they exert? Here's your lifeline! Fluid Mechanics Demystified helps you absorb the essentials of this challenging engineering topic. Written in an easy-to-follow format, this practical guide begins by reviewing basic principles and discussing fluid statics. Next, you'll dive into fluids in motion, integral and differential equations, dimensional analysis, and similitude. Internal, external, and compressible flows are also covered. Hundreds of worked examples and equations make it easy to understand the material, and end-of-chapter quizzes and two final exam, with solutions to all their problems, help reinforce learning. This hands-on, self-teaching text offers: Numerous figures to illustrate key concepts Details on Bernoulli's equation and the Reynolds number Coverage of entrance, laminar, turbulent, open channel, and boundary layer flows SI units throughout A time-saving approach to performing better on an exam or at work Simple enough for a beginner, but challenging enough for an advanced student, Fluid Mechanics Demystified is your shortcut to understanding this essential engineering subject.

More than 100,000 nursing students must pass a series of dosage calculation exams annually in their regular courses Part of the popular Demystified series which has sold more than one million copies An enlightening guide to optics Are you in the dark when it comes to understanding the science of optics? Now there's a glimmer in the gloom! Optics Demystified brings this challenging topic into focus. Written in an easy-to-follow format, this practical guide begins by covering the nature of light, the electromagnetic spectrum, reflection, refraction, and color dispersion. You'll move on to common optical devices and effects, lasers, and optical data transmission technology. Industrial, medical, and military applications are discussed, as are exotic optics such as holography. Detailed examples and concise explanations make it easy to understand the material, and end-of-chapter quizzes and a final exam help reinforce learning. It's a no-brainer! You'll get: Explanations of the particle and wave theories Analysis of optical microscopes and telescopes Functional details of fiber optics A sampling of optical illusions A time-saving approach to performing better on an exam or at work Simple enough for a beginner but challenging enough for an advanced student, Optics Demystified illuminates this vital physics topic.

Unlock the riddle of speaking and interacting in Spanish Spanish Demystified provides you with a solid foundation for building conversation skills in that language. You can go at your own pace as you are guided through the fundamentals of communicating in Spanish. Organized around everyday themes such as meeting people, making plans, and talking on the phone each chapter features an in-depth dialog presented both in the book and on the audio, coverage of essential communication skills (such as asking a question or making comparisons), review of key grammar points, and written and verbal activities to reinforce new communication skills.

A Handbook for the Digital Engineer

Japanese Demystified

Video Demystified

Signals and Systems For Dummies

Accounting information and tips you can take to the bank! You may not know the first thing about debits, credits, and cash ratios now—but when you 're done with this book, you ' ll be able to juggle profits and losses with your eyes closed and read any balance sheet like it ' s a good novel. Accounting DeMYSTiFieD, Second Edition, is a curriculum-based, self-teaching guide that makes learning accounting easier than 1-2-3. With graphs, plain-English explanations, and real-life examples, it starts with the fundamentals—such as basic financial terms, balance sheets, and cash flow statements—and eases you into the more complicated stuff, like adjusting entries, double entry bookkeeping, profit ratios, and liquidity. Completely updated and revised to cover finance terms, theories, and best practices, Accounting DeMYSTiFieD teaches you the ins and outs of accounting in no time at all. This fast and easy guide features: A complete overview of financial statements, GAAP rules, transactions, cost, budgets, and tax accounting Proven accounting insights, tips, strategies, and techniques Chapter-ending practice exercises, quizzes, and final exam to reinforce your knowledge and chart progress Tons of examples to show how accounting works in the real world Simple enough for a beginner but challenging enough for a more advanced student, Accounting DeMYSTiFieD is your shortcut to mastery of this otherwise complex subject.

Your INTEGRAL tool for mastering ADVANCED CALCULUS Interested in going further in calculus but don't where to begin? No problem! With Advanced Calculus Demystified, there's no limit to how much you will learn. Beginning with an overview of functions of multiple variables and their graphs, this book covers the fundamentals, without spending too much time on rigorous proofs. Then you will move through more complex topics including partial derivatives, multiple integrals, parameterizations, vectors, and gradients, so you'll be able to solve difficult problems with ease. And, you can test yourself at the end of every chapter for calculated proof that you're mastering this subject, which is the gateway to many exciting areas of mathematics, science, and engineering. This fast and easy guide offers: Numerous detailed examples to illustrate basic concepts Geometric interpretations of vector operations such as div, grad, and curl Coverage of key integration theorems including Green's, Stokes', and Gauss' Quizzes at the end of each chapter to reinforce learning A time-saving approach to performing better on an exam or at work Simple enough for a beginner, but challenging enough for a more advanced student, Advanced Calculus Demystified is one book you won't want to function without!

This step-by-step approach to untangling the complexities of ethics from the bestselling ... Demystified brand is a trusted companion to a college (346,000 students annually) course or as a self-teaching guide for readers studying on their own. About the Book This easy-to-use guide from the popular Demystified series makes learning about ethics simple by walking readers step-by-step through the fundamentals of the subject. Each chapter concludes with a self-test that allows readers to track their progress, and a comprehensive final exam at the end of the book gives instant feedback on new knowledge. Ethics Demystified lets readers to work at their own pace and provides them with the essentials of the subject. Readers will learn: The important concepts of ethical theory How to untangle moral dilemmas and questions of right conduct Metaethics and how to understand ethical facts and judgments How to define a " right action " with normative ethics Applied ethics—from civil liberties and capital punishment to euthanasia and affirmative action The role business ethics play in today ' s corporate world Following the easy-to-use format of the books in the bestselling ... Demystified series, Ethics Demystified helps you truly comprehend this challenging subject a without overwhelming you with complexities or mystifying jargon. Bestselling series: Since its launch in 2002, the 100+ books in the Demystified series have sold more than 1.6 million units for more than \$14 million in revenue. Unique features: Readers work at their own pace, and hands-on self tests and a " final exam " lets readers gauge their progress to ensure that they stay on track. Large audience: In 2006, 368,000 college students studied ethics. Current topic: Business ethics are becoming an important part of MBA programs. Step-by-step, self-teaching approach lets readers build ethics knowledge at their own pace. Chapter-ending quizzes, part-ending tests, and a final exam give readers instant feedback on their understanding of the topic. Ethics Demystified is an excellent self-teaching guide for: Undergraduate-level ethics and philosophy students (368,000 annual enrollment) Independent readers who want to build a solid foundation in ethics in their spare time

Unravel the mystery of speaking in French! Need a straightforward approach for fast and painless mastery of French speaking and comprehension skills? This easy-to-use guide from the popular Demystified series takes the mystery and menace out of speaking and understanding French by walking you step-by-step through the fundamentals of communicating in the language. French Conversation Demystified lets you work at your own pace and arms you with the essentials of communicating in French in an unthreatening format. Organized around everyday scenarios such as meeting people, talking about yourself, and eating out, each chapter features: An in-depth dialog presented both in the book and on the audio. Coverage of essential communication skills (such as asking a question or making comparisons). Review of key grammar points. Written and verbal activities to reinforce new communication skills. Each chapter concludes with a written and audio quiz that allows you to track your progress, and a comprehensive final exam at the end of the book gives instant feedback on new language skills.

Medical Charting Demystified

Fluid Mechanics DeMYSTiFied

Minitab Demystified

Forensics Demystified

Mathematica DeMYSTiFied

Making sense of LOGIC just got a whole lot EASIER! Stumped trying to understand logic? It's time to listen to reason! There's no doubt that Logic Demystified will help you master this challenging subject. Written in a step-by-step format, this practical guide begins by covering arguments, validity, and truth tables. You'll move on to propositional and predicate logic, rigor, fallacies, paradoxes, and revelations. Proofs, Boolean algebra, the logic of machines, and sets are discussed as is the illogic of time, matter, space, and chaos. Detailed examples and concise explanations make it easy to understand the material, and end-of-chapter quizzes and a final exam help reinforce learning. It's a no-brainer! You'll get: Rules for reasoning Quantified statements and theorems Simple and classical paradoxes Strategies for proofs Basic set theory and machine logic A time-saving approach to performing better on homework, an exam, or at work Simple enough for a beginner, but challenging enough for an advanced student, Logic Demystified helps you validate your knowledge of this multidisciplinary topic.

Never surrender to U.S. history! U.S. History DeMYSTiFieD gives you the opportunity to learn this subject at your own pace. Master topics such as important dates; prominent presidential acts and decisions; America's role during both world wars; as well as fun and interesting facts. The book helps you truly comprehend this challenging subject a without overwhelming you with complexities or mystifying jargon. U.S. History DeMYSTiFieD features: Chapter-opening objectives that give you insight into what you're going to learn in each step Questions at the end of every chapter reinforce learning and pinpoint weaknesses "Still Struggling?" icon offers specific recommendations for when you're having difficulty with certain subtopics Includes a final exam for overall self-assessment "Curriculum Tree" shows how the topic covered in the book fits into a larger curriculum What doesn't have a video component nowadays? iPod, cell phone, computer, they all have video. And, of course, television which is a major source of our entertainment and information. Any engineer involved in designing, manufacturing, or testing video electronics needs this book! Each edition of Video Demystified has sold thousands of copies and answered many questions for electrical engineers across the globe. This fifth edition will keep the engineer up-to-date with next-generation digital video formats - Blu-ray and HD-DVD, development of new audio and video codecs - Dolby Digital Plus, DTS-HD, etc. - along with the all the latest information on HDTV, HDMI and IPTV(TV over the Internet). All broadcast, cable, and satellite standards will be updated to reflect these new codecs and specifications. The book will also aid in the design of devices and infrastructures from analog to digital television transmission - with analog transmission ceasing in early 2009 or before. *The next generation of digital video - Blu-ray and HD-DVD thoroughly introduced *All broadcast and satellite standards completely updated *Essential information for the upcoming transition of television signals from analog to digital

This updated and expanded second edition of the Signals & Systems Demystified provides a user-friendly introduction to the subject Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject . We hope you find this book useful in shaping your future career & Business.

A Self Teaching Guide

French Conversation Demystified

Discrete Mathematics DeMYSTiFied

Optics Demystified

Microsoft Office 2010 Demystified

There's no easier, faster, or more practical way to learn the really tough subjects Forensics Demystified explains forensic science in a logical progression from evidence collection through analysis and finally to the scientist actually testifying in court. This self-teaching guide comes complete with key points, background information, quizzes at the end of each chapter, and even a final exam. Simple enough for beginners but challenging enough for advanced students, this is a lively and entertaining brush-up, introductory text, or classroom supplement.

It's EASIER than ever to get started with Microsoft Office 2010! Navigate your way around the Microsoft Office 2010 suite without getting lost in too many details. Microsoft Office 2010 Demystified shows you the ropes and explains the new, handy, and most popular functions of each application.

Written in a step-by-step, tutorial format, this practical guide begins with an overview of the suite and the universal features that can be used in all of the individual programs. Then, you'll drill down into the specifics of Word, Excel, PowerPoint, Outlook, and Access. Detailed explanations and screenshots make it easy to understand the material, and end-of-chapter quizzes and a final exam help reinforce key concepts. It's a no-brainer! You'll learn how to: Create great-looking Word documents Crunch numbers and get graphical in Excel spreadsheets Develop persuasive PowerPoint presentations Manage your email, tasks, calendar, and contacts with Outlook Build and manage Access databases Simple enough for a beginner, but challenging enough for an advanced student, Microsoft Office 2010 Demystified helps you master this powerful suite of applications.

Unlock the riddle of speaking and interacting in German German Demystified provides you with a solid foundation for building conversation skills in that language. You can go at your own pace as you are guided through the fundamentals of communicating in German. Organized around everyday themes such as meeting people, making plans, and talking on the phone each chapter features an in-depth dialog presented both in the book and on the audio, coverage of essential communication skills (such as asking a question or making comparisons), review of key grammar points, and written and verbal activities to reinforce new communication skills.

Learn quantum field theory relatively easily Trying to comprehend quantum field theory but don't have infinite time or the IQ of Einstein? No problem! This easy-to-follow guide helps you understand this complex subject matter without spending a lot of energy. Quantum Field Theory Demystified covers essential principles such as particle physics and special relativity. You'll learn about Lagrangian field theory, group theory, and electroweak theory. The book also explains continuous and discrete symmetries, spontaneous symmetry breaking, and supersymmetry. With thorough coverage of the mathematics of quantum field theory and featuring end-of-chapter quizzes and a final exam to test your knowledge, this book will teach you the fundamentals of this theoretical framework in no time at all. This fast and easy guide offers: Numerous figures to illustrate key concepts Sample equations with worked solutions Coverage of quantum numbers Details on the Dirac equation, the Feynman rules, and the Higgs mechanism A time-saving approach to performing better on an exam or at work Simple enough for a beginner, but challenging enough for an advanced student, Quantum Field Theory Demystified is your shortcut to understanding this fascinating area of physics.

Circuit Analysis Demystified

Quantum Field Theory Demystified

A Primer with MATLAB®

Operating Systems DeMYSTiFieD

Matlab: Demystified Basic Concepts and Applications

Getting mixed signals in your signals and systems course? The concepts covered in a typical signals and systems course are often considered by engineering students to be some of the most difficult to master. Thankfully, Signals & Systems For Dummies is your intuitive guide to this tricky course, walking you step-by-step through some of the more complex theories and mathematical formulas in a way that is easy to understand. From Laplace Transforms to Fourier Analyses, Signals & Systems For Dummies explains in plain English the difficult concepts that can trip you up. Perfect as a study aid or to complement your classroom texts, this friendly, hands-on guide makes it easy to figure out the fundamentals of signal and system analysis. Serves as a useful tool for electrical and computer engineering students looking to grasp signal and system analysis Provides helpful explanations of complex concepts and techniques related to signals and systems Includes worked-through examples of real-world applications using Python, an open-source software tool, as well as a custom function module written for the book Brings you up-to-speed on the concepts and formulas you need to know Signals & Systems For Dummies is your ticket to scoring high in your introductory signals and systems course.

Mixed Signal Test Methods Demystified is a less theoretical, less mathematical, and more applications-oriented approach than other books available on the topic. In effect, this book will give readers a "just in time" understanding of the essentials of mixed signal testing techniques. Emphasis will be on commonly used devices and systems (such as PLLs and DSP) that engineers encounter in their daily tasks. Sampling theory is covered in detail, as this is the foundation for understanding all mixed signal testing technique, and readers will have a strong intuitive grasp of this topic after finishing this book. Baker aims to develop an intuitive understanding of mixed signal testing that minimizes the mathematics required and is germane to the sort of testing requirements found in typical engineering situations. *Takes a less theoretical, less mathematical, and more applications-oriented approach *Emphasizes commonly used devices and systems that engineers encounter in their daily tasks *Aims to develop an intuitive understanding of mixed signal testing

This is the most definitive, informative video reference available, made more compelling by the authors inclusion of the hottest new trends and cutting-edge development in the field. This book will serve as an invaluable guide to the designers and engineers who will design, create and deliver these products and services.

Here's the sure cure for CIRCUIT PARALYSIS! Need to learn circuit analysis but experiencing some resistance in your brain waves? No stress! Circuit Analysis Demystified will give you the jolt you need to understand this complex subject--without getting your circuits crossed. In the first part of the book, you'll learn the fundamentals such as voltage and current theorems, Thevenin and Norton's theorems, op amp circuits, capacitance and inductance, and phasor analysis of circuits. Then you'll move on to more advanced topics including Laplace transforms, three-phase circuits, filters, Bode plots, and characterization of circuit stability. Featuring end-of-chapter quizzes and a final exam, this book will have you in a steady state when it comes to circuit analysis in no time at all. This fast and easy guide offers: Numerous figures to illustrate key concepts Sample equations with worked solutions Coverage of Kirchhoff's laws, the superposition theorem, Millman's theorem, and delta-wye transformations Quizzes at the end of each chapter to reinforce learning A time-saving approach to performing better on an exam or at work Simple enough for a beginner, but challenging enough for an advanced student, Circuit Analysis Demystified will transform you into a master of this essential engineering subject.

U.S. History DeMYSTiFieD

Digital Frequency Synthesis Demystified

French Demystified

Logic DeMYSTiFied

Spanish Conversation Demystified

Get up to speed on nanotechnology and the many biological, chemical, physical, environmental, and political aspects of this developing science.

Need to learn MATHEMATICA? Problem SOLVED! Take full advantage of all the powerful capabilities of Mathematica with help from this hands-on guide. Filled with examples and step-by-step explanations, Mathematica Demystified takes you from your very first calculation all the way to plotting complex fractals. Using an intuitive format, this book explains the fundamentals of Mathematica up front. Learn how to define functions, create 2-D graphs of functions, write basic programs, and use modules. You'll move on to 3-D graphics, calculus, polynomial, linear, and differential equations, dynamical systems, and fractals. Hundreds of examples with concise explanations make it easy to understand the material, and end-of-chapter quizzes and a final exam help reinforce learning. This self-teaching guide offers: A quick way to get up and running on Mathematica Coverage of Mathematica 6 and 7 Tips for avoiding and correcting syntax errors Details on creating slideshow presentations of your work No unnecessary technical jargon A time-saving approach to performing better on an exam or at work! Simple enough for a beginner, but challenging enough for an advanced user, Mathematica Demystified is your shortcut to mastering this fully integrated technical computing software.

Signals and Systems: A Primer with MATLAB® provides clear, interesting, and easy-to-understand coverage of continuous-time and discrete-time signals and systems. Each chapter opens with a historical profile or career talk, followed by an introduction that states the chapter objectives and links the chapter to the previous ones. All principles are presented in a lucid, logical, step-by-step approach. As much as possible, the authors avoid wordiness and detail overload that could hide concepts and impede understanding. In recognition of the requirements by the Accreditation Board for Engineering and Technology (ABET) on integrating computer tools, the use of MATLAB® is encouraged in a student-friendly manner. MATLAB is introduced in Appendix B and applied gradually throughout the book. Each illustrative example is immediately followed by a practice problem along with its answer. Students can follow the example step by step to solve the practice problem without flipping pages or looking at the end of the book for answers. These practice problems test students' comprehension and reinforce key concepts before moving on to the next section. Toward the end of each chapter, the authors discuss some application aspects of the concepts covered in the chapter. The material covered in the chapter is applied to at least one or two practical problems or devices. This helps students see how the concepts are applied to real-life situations. In addition, thoroughly worked examples are given liberally at the end of every section. These examples give students a solid grasp of the solutions as well as the confidence to solve similar problems themselves. Some of the problems are solved in two or three ways to facilitate a deeper understanding and comparison of different approaches. Ten review questions in the form of multiple-choice objective items are provided at the end of each chapter with answers. The review questions are intended to cover the "little tricks" that the examples and end-of-chapter problems may not cover. They serve as a self-test device and help students determine chapter mastery. Each chapter also ends with a summary of key points and formulas. Designed for a three-hour semester course on signals and systems, Signals and Systems: A Primer with MATLAB® is intended as a textbook for junior-level undergraduate students in electrical and computer engineering. The prerequisites for a course based on this book are knowledge of standard mathematics (including calculus and differential equations) and electric circuit analysis.

Decode the mystery of English grammar to add polish to your papers, emails, business letters, and more English Grammar Demystified teaches the fundamentals of the subject in an easy, step-by-step approach that allows you to learn at your own pace. With help from this book, you will understand the parts of speech, learn to use punctuation correctly, master verb tenses, spot and avoid common grammatical errors, and improve your overall sentence structures. Throughout the book you can monitor your progress through self-tests, and a comprehensive final exam at the end of the book gives you instant feedback on new language skills.

Signals and Systems

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