

## Mathematica Demystified

*Thoroughly revised and updated, The Art of Modeling in Science and Engineering with Mathematica®, Second Edition explores the mathematical tools and procedures used in modeling based on the laws of conservation of mass, energy, momentum, and electrical charge. The authors have culled and consolidated the best from the first edition and expanded the range of applied examples to reach a wider audience. The text proceeds, in measured steps, from simple models of real-world problems at the algebraic and ordinary differential equations (ODE) levels to more sophisticated models requiring partial differential equations. The traditional solution methods are supplemented with Mathematica, which is used throughout the text to arrive at solutions for many of the problems presented. The book is accompanied by illustrations and graphics drawn from classical and contemporary sources. They range from Thomson's famous experiment to determining the spin and Euler's model for the buckling of a strut to an analysis of the propagation of emissions and the performance of wind turbines. The mathematical tools required are first explained in separate chapters and then carried along throughout the text to solve and analyze the models. Commentaries at the end of each illustration draw attention to the pitfalls to be avoided and, perhaps most important, alert the reader to unexpected results that defy conventional wisdom. These features and more make the book the perfect tool for resolving three common difficulties: the proper choice of model, the absence of precise solutions, and the need to make suitable simplifying assumptions and approximations. The book covers a wide range of physical processes and phenomena drawn from various disciplines and clearly illuminates the link between the physical system being modeled and the mathematical equation that results.*

*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 DEEP and MEANINGFUL way to learn PHILOSOPHY Trying to understand philosophy but feeling a bit skeptical? It's time to listen to reason! Philosophy Demystified helps you grasp both fundamental and complex topics with ease. Written in a step-by-step format, this practical guide begins with an overview of Western philosophy and coverage of correct reasoning and critical thinking. The book goes on to discuss major branches of philosophy, including epistemology, metaphysics, ethics, and political philosophy. In-depth examples, detailed diagrams, 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 learn about: Knowledge and the problem of skepticism The problem of induction and the development of externalism Personhood and personal identity over time The question of God's existence Moral decision-making Justice, rights, and government Simple enough for a beginner, but challenging enough for an advanced student, Philosophy Demystified helps you master this fascinating subject.*

*This book demystifies the models we use to simulate present and future climates, allowing readers to better understand how to use climate model results. In order to predict the future trajectory of the Earth's climate, climate-system simulation models are necessary. When and how do we trust climate model predictions? The book offers a framework for answering this question. It provides readers with a basic primer on climate and climate change, and offers non-technical explanations for how climate models are constructed, why they are uncertain, and what level of confidence we should place in them. It presents current results and the key uncertainties concerning them. Uncertainty is not a weakness but understanding uncertainty is a strength and a key part of using any model, including climate models. Case studies of how climate model output has been used and how it might be used in the future are provided. The ultimate goal of this book is to promote a better understanding of the structure and uncertainties of climate models among users, including scientists, engineers and policymakers.*

*A Beginner's Guide To Mathematica*

*Mathematica Demystified*

*A Hands-On Introduction*

*Principles of Linear Algebra with Mathematica*

*Historical Research and Integration with Teaching*

*Mathematica DeMYSTiFieD McGraw Hill Professional*

Get the score you want with this step-by-step approach for fast and fun mastery of the GED GED DeMYSTiFieD takes the mystery out of studying for the GED by walking you step-by-step through the fundamentals of the subject. Following the easy-to-use format of the books in the bestselling Demystified series, GED Demystified helps you build the skills you need to prepare for test. Get your desired score with help from: Review sections of the 5 components of the test: writing, reading, math, social studies, and science Sample practice tests at the end of each of the 5 sections with complete answer explanations 2 comprehensive practice exams Sample tests designed to match the real GED in degree of difficulty Classroom-tested tips and strategies for mastering every question type "Letter to the Student" that touts the DeMYSTiFieD brand and highlights the series benefits Chapter-opening objectives that give you insight into what you are going to learn in each step Questions at the end of every chapter that reinforce learning and pinpoint weaknesses "Still Struggling?" icons that offer specific recommendations for those difficult subtopics A final exam for overall self-assessment

Dominate world history! World History DeMYSTiFieD gives you the opportunity to learn this subject at your own pace. Master topics such as important dates; the great civilizations of Ancient Greece and Rome Empires; the scientific developments of the Ancient Egyptians; the various dynasties of China; as well as fun and interesting facts. The book helps you truly comprehend this challenging subject without overwhelming you with complexities or mystifying jargon. World 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 Take the heat off of understanding thermodynamics Now you can get much-needed relief from the pressure of learning the fundamentals of thermodynamics! This practical guide helps you truly comprehend this challenging engineering topic while sharpening your problem-solving skills. Written in an easy-to-follow format, Thermodynamics Demystified begins by reviewing basic principles and discussing the properties of pure substances. The book goes on to cover laws of thermodynamics, power and refrigeration cycles, psychrometrics, combustion, and much more. Hundreds of worked examples and equations make it easy to understand the material, and end-of-chapter quizzes and two final exams help reinforce learning. This hands-on, self-teaching text offers: Numerous figures to illustrate key concepts Details on the first and second laws of thermodynamics Coverage of vapor and gas cycles, psychrometrics, and combustion An overview of heat transfer 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, Thermodynamics Demystified is your shortcut to mastering this essential engineering subject.

Financial Accounting DeMYSTiFieD

Calculus Demystified

Principia Mathematica

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!

Annual enrollment in Complex Variables courses is 102,000

Dieses Buch bietet eine kurze und verständliche Einführung in das Softwarepaket MATHEMATICA und zeigt dessen Anwendung auf Problemstellungen aus der Ingenieurmathematik. Zunächst werden der Aufbau, die Arbeitsweise und die Möglichkeiten von MATHEMATICA näher beschrieben. Anschließend wird dieses Grundwissen auf die Grundlagen der Ingenieurmathematik, z.B. Matrizen, Differential- und Integralrechnung, angewendet. Der letzte Teil des Buches widmet sich den fortgeschrittenen Themen der Ingenieurmathematik. Dabei werden Differentialgleichungen, Transformationen, Optimierung, Wahrscheinlichkeitsrechnung und Statistik behandelt. Die Berechnungen werden jeweils ausführlich dargestellt und an zahlreichen Beispielen illustriert.

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 desktop and everyday use.

World History DeMYSTiFieD

Demystifying Computation

Demystifying Climate Models

European History DeMYSTiFieD

The Art of Modeling in Science and Engineering with Mathematica

Whether for high school, college, or pleasure creative writing, you need to know the basic elements of the craft. Creative Writing DeMYSTiFieD gives you helpful suggestions for evaluating your work for freshness and originality and offers scores of exercises, techniques, samples and websites to access more. The book introduces you to general creative writing terms and craft as well as genre specific terms and craft elements. Creative Writing DeMYSTiFieD lets you work at your own pace and provides: -An overview of the creative writing field today and its history -Insights from top writers in the creative writing subgenres -Exercises by professionals in all the subgenres -Answers to questions creative writers have -Resources for revising and finishing your work

Demystifying Big Data, Machine Learning, and Deep Learning for Healthcare Analytics presents the changing world of data utilization, especially in clinical healthcare. Various techniques, methodologies, and algorithms are presented in this book to organize data in a structured manner that will assist physicians in the care of patients and help biomedical engineers and computer scientists understand the impact of these techniques on healthcare analytics. The book is divided into two parts: Part 1 covers big data aspects such as healthcare decision support systems and analytics-related topics. Part 2 focuses on the current frameworks and applications of deep learning and machine learning, and provides an outlook on future directions of research and development. The entire book takes a case study approach, providing a wealth of real-world case studies in the application chapters to act as a foundational reference for biomedical engineers, computer scientists, healthcare researchers, and clinicians. Provides a comprehensive reference for biomedical engineers, computer scientists, advanced industry practitioners, researchers, and clinicians to understand and develop healthcare analytics using advanced tools and technologies Includes in-depth illustrations of advanced techniques via dataset samples, statistical tables, and graphs with algorithms and computational methods for developing new applications in healthcare informatics Unique case study approach provides readers with insights for practical clinical implementation

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 turbulence. 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 exams, 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.

Enables teachers to learn the history of mathematics and then incorporate it in undergraduate teaching. Intermediate Accounting DeMYSTiFieD

Philosophy DeMYSTiFieD

MATHEMATICA kompakt

Statics and Dynamics Demystified

Thermodynamics DeMYSTiFieD

A hands-on introduction to the theoretical and computational aspects of linear algebra using Mathematica® Many topics in linear algebra are simple, yet computationally intensive, and computer algebra systems such as Mathematica® are essential not only for learning to apply the concepts to computationally challenging problems, but also for visualizing many of the geometric aspects within this field of study. Principles of Linear Algebra with Mathematica uniquely bridges the gap between beginning linear algebra and computational linear algebra that is often encountered in applied settings, and the commands required to solve complex and computationally challenging problems using Mathematica are provided. The book begins with an introduction to the commands and programming guidelines for working with Mathematica. Next, the authors explore linear systems of equations and matrices, applications of linear systems and matrices, determinants, inverses, and Cramer's rule. Basic linear algebra topics, such as vectors, dot product, cross product, and vector projection are explored, as well as a unique variety of more advanced topics including rotations in space, "rolling" a circle along a curve, and the TNB Frame.

Subsequent chapters feature coverage of linear transformations from Rn to Rm, the geometry of linear and affine transformations, with an exploration of their effect on arclength, area, and volume, least squares fits, and pseudoinverses. Mathematica is used to enhance concepts and is seamlessly integrated throughout the book through symbolic manipulations, numerical computations, graphics in two and three dimensions, and interactive programming. Each section concludes with standard problems in addition to problems that were specifically designed to be solved with Mathematica, allowing readers to test their comprehension of the presented material. All related Mathematica code is available on a corresponding website, along with solutionsto problems and additional topical resources. Extensively class-tested to ensure an accessible presentation, Principles of Linear Algebra with Mathematica is an excellent book for courses on linear algebra at the undergraduate level. The book is also an ideal reference for students and professionals who would like to gain a further understanding of the use of Mathematica to solve linear algebra problems.

Who was Jacques Derrida, and why does he have such a towering, and forbidding reputation across modern philosophy? For some he is the source of the crisis of alternative facts. For far right terrorist Anders Breivik, "Derridian deconstruction" was the cause for the end of truth. In 1992, 18 philosophy writers wrote an open letter to the Times to complain when he was awarded an honorary degree by Cambridge University. For others, he is a film star thinker who covered every possible subject from literature, politics, and language. Born in Algiers, the young Jackie, named after a character in a Chaplin movie, only to change to Jacques, once he moved to Paris, was always an outsider. Here, despite an obvious genius, he found it difficult to find himself. However, in 1967, he changed the whole course of philosophy in one go: with the development of the ideas of deconstruction. Immediately, his reputation as a complex and confounding thinker was established. Feted by some, abhorred by others, Derrida's influence across late 20th century thought is unquestionable. And here Peter Salmon introduces the key concepts, showing that, despite the impression of being eclectic, Derrida was a writer who spent his life on a series of interlinked themes: ethics, friendship, language. Accessible, provocative and beautifully written, an Event, Perhaps introduces to a new readership the life and thinking of a philosopher whose influence over the 21st century is likely to be as important as it was on the previous century.

Professor Lloyd explores cultural diversity in terms of communication and not mentality. Don't let European history be your Waterloo! European History DeMYSTiFieD gives you the opportunity to learn this subject at your own pace. Master topics such as important dates; the colonization of Asia, Africa, and the New World; World War I and World War II; as well as fun and interesting facts. The book helps you truly comprehend this challenging subject without overwhelming you with complexities or mystifying jargon. European 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

The British National Bibliography

Demystifying Exotic Products

Demystifying Big Data, Machine Learning, and Deep Learning for Healthcare Analytics

A Biography of Jacques Derrida

Signals & Systems Demystified

A straightforward, step-by-step approach for fast and fun mastery of ASVAB ASVAB DeMYSTiFieD takes the mystery out of studying for the ASVAB by walking you step-by-step through the fundamentals of the subject. Following the easy-to-use the book helps you build the skills you need to prepare for the test. Get your desired score with Instructional materials in short, easy-to-handle chunks Sample practice tests with complete answer explanations Review sections of the Reading and Math skills Tips and strategies for mastering every question type Extra help and practice with every concept topic tested on the ASVAB "Letter to the Student" that touts the DeMYSTiFieD brand and highlights the series benefits Chapter-opening objectives that gives insight into what you are going to learn in each step Questions at the end of every chapter that reinforce your learning and pinpoint your weaknesses "Still Struggling?" icons that offer specific recommendations for those difficult subtopics A final exam for overall self-assessment

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.

This book provides an introduction to the theory of dynamical systems with the aid of the Mathematica® computer algebra package. The book has a very hands-on approach and takes the reader from basic theory to recently published research material. Emphasized throughout are numerous applications to biology, chemical kinetics, economics, electronics, epidemiology, nonlinear optics, mechanics, population dynamics, and neural networks. Theorems and proofs are kept to a minimum. The first section deals with continuous systems using ordinary differential equations, while the second part is devoted to the study of discrete dynamical systems.

Modeling is practiced in engineering and all physical sciences. Many specialized texts exist - written at a high level - that cover this subject. However, students and even professionals often experience difficulties in setting up and solving even the simplest of models. This can be attributed to three difficulties: the proper choice of model, the absence of precise solutions, and the necessity to make suitable simplifying assumptions and approximations. Overcoming these difficulties is the focus of The Art of Modeling in Science and Engineering. The text is designed for advanced undergraduate and graduate students and practicing professionals in the sciences and engineering with an interest in Modeling based on Mass, Energy and Momentum or Force Balances. The book covers a wide range of physical processes and phenomena drawn from chemical, mechanical, civil, environmental sciences and bio- sciences. A separate section is devoted to "real World" industrial problems. The author explains how to choose the simplest model, obtain an appropriate solution to the problem and make simplifying assumptions/approximations.

Creative Writing DeMYSTiFieD

Demystifying Electricity

Digital Signal Processing Demystified

Vita Mathematica

A Users Guide to Earth System Models

Chat like a native Italian speaker Want to hold conversations in Italian but you can't get past Come stai? Non e un problema! With Italian Conversation Demystified you'll develop your skills so quickly you'll sound like you were born in Bologna or made your living in Milan. Beginning with common Italian phrases you already know, this book covers key topics such as going out on the town, talking on the phone, asking for directions, and making future plans. Step by step, you'll build your Italian conversation skills and—in no time—you will learn how to talk about the past and future, express opinions, ask for advice, make small talk, and much more. To help you on your way, the accompanying audio CDs feature two-and-a-half hours of conversations performed by native speakers and interactive practice exercises and quizzes. This fast and easy guide features: In-depth dialogues presented both in the book and on the audio Audio practice exercises that get you speaking immediately Step-by-step guidance through the fundamentals of communicating in Italian Coverage of essential conversational skills such as asking a question or making comparisons Quizzes at the end of each chapter that reinforce new communication skills So when you are ready to graduate from simple questions to having full discussions with Italian speakers, Italian Conversation Demystified is your shortcut to mastering this popular language.

In recent times, derivatives have been inaccurately labelled the financial weapons of mass destruction responsible for the worst financial crisis in recent history. Inherently complex and perilous for the ill-informed investment professional they can however also be gainfully harnessed. This book is a practical guide to the complexities of exotic products written in simple terms based on the premise that derivatives are not homogenous, and not necessarily dangerous. By exploring common themes behind the construction of various structured products in interest rates, equities and foreign exchange, and investigating the economic environment that promoted the explosive growth of these products, this book will help readers make sense of their relevance in this period of economic uncertainty. Subsequently, by explaining exotic products with simple mathematics, it will aid readers in understanding their potential use in certain investment strategies whilst having a firm control over risk. Exotic products need not be inaccessible. By understanding the products available investors can make informed decisions ensuring features are consistent with their investment objectives and risk preferences. Author Chia Chang Tan takes readers through the risks and rewards of each product, illustrating when products can damage investment strategies and how to avoid them, leading to suitable, profitable investments. Ultimately, this book will provide practitioners with an understanding of derivatives, enabling them to determine for themselves which products will fit their investment strategy, and how to use them based on the economic environment and inherent risks.

This profound challenge to some of the most fundamental orthodoxes of modern nuclear physics grew from its author's discovery that, for all its success and sophistication, atomic theory has failed to provide a coherent explanation for the everyday phenomenon of electricity. M.L. Coleman located the source of the problem in the assumption that there are two different atomic particles carrying electrical charges, the electron with a negative charge and a positron with a positive charge. The author boldly argues that there is, in fact, only one such particle, carrying both charges. He christens this single particle the "Eptron." A largely self-educated scientist, Mr. Coleman remains a proud heir to the classical tradition stemming from Newton and clearly demonstrates how nuclear theory has failed to make sense of the basic phenomena of electricity, magnetism, and gravity which puzzled and inspired early physicists. The author reached his revolutionary conclusions by combining his mastery of both classical and modern theory with, in his own words, "A little common sense." Of course, a great deal of arduous research, creative experiment, and complex mathematical thought to confirm his arguments. With rigor and clarity, he shows not only that the hypothesis of the Eptron is more elegant and economical than that of the separate electrons and positrons, but also that it makes both direct and alternating current explicable for the first time in terms of nuclear physics. "All I have done," he explains with disarming honesty, "is explain how electricity works." Eptron theory involves a radical new understanding not just of electricity, but of light itself. Through collisions with oneanother, Eptrons are transformed into photons and then back into Eptrons by the process of expansion and contraction which the eye perceives as light. While the higher reaches of his mathematics are addressed to the scientific community, the book as a whole is designed for laymen as well, and they will learn an enormous amount along the way, not just about Eptrons, but also about the history of Physics. "Demystifying Electricity" throws down a gauntlet to modern science that it cannot afford to ignore and reclaims nuclear theory in the name of common sense. "If my work is made available to young chemists, physicists, and electrical engineers," the author asserts with justifiable pride, "I believe they will study it and find it correct."

The fast and easy way to learn statics and dynamics This new title in the popular Demystified series offers practical, easy-to-follow coverage of the difficult statics and dynamics course. Expert author David McMahon follows the standard curriculum, starting with basic mathematical concepts and moving on to advanced topics such as Newton's Law, structural analysis, centrifugal forces, kinematics, and Lagrange methods.

Italian Conversation DeMYSTiFieD

Biochemistry Demystified

ASVAB DeMYSTiFieD

Matlab: Demystified Basic Concepts and Applications

Operating Systems DeMYSTiFieD

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. Problem solving in computing is referred to as computational thinking. The theory behind this concept is challenging in its technicalities, yet simple in its ideas. This book introduces the theory of computation from its inception to current form of complexity; from explanations of how the field of computer science was formed using classical ideas in mathematics by Gödel, to conceptualization of the Turing Machine, to its more recent innovations in quantum computation, hypercomputation, vague computing and natural computing. It describes the impact of these in relation to academia, business and wider society, providing a sound theoretical basis for its practical application. Written for accessibility, Demystifying Computation provides the basic knowledge needed for non-experts in the field, undergraduate computer scientists and students of information and communication technology and software development. Request Inspection Copy Contents: A Brief History of Computing From Hilbert to Gödel to Turing Hypercomputation Natural Computing Quantum Computing Vague Computing Physical Reality and Computation Readership: High-School and undergraduate students in computer science, information and communication technology, and software development, and non-experts in the field looking to understand how computation works.

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.

GED DeMYSTiFieD

Demystifying Mentalities

An Event, Perhaps

Multimedia Demystified

Complex Variables Demystified

Because of its large command structure and intricate syntax, Mathematica can be difficult to learn. Wolfram's Mathematica manual, while certainly comprehensive, is so large and complex that when trying to learn the software from scratch -- or find answers to specific questions -- one can be quickly overwhelmed. A Beginner's Guide to Mathemat Principia Mathematica was first published in 1910-13; this is the ninth impression of the second edition of 1925-7. The Principia has long been recognised as one of the intellectual landmarks of the century. It was the first book to show clearly the close relationship between mathematics and formal logic. Starting from a minimal number of axioms, Whitehead and Russell display the structure of both kinds of thought. No other book has had such an influence on the subsequent history of mathematical philosophy.

The simple solution to complex accounting You don't need a genius IQ to ace your financial accounting curriculum. The only prerequisites are a little discipline and a comprehensive tutorial devoid of confusing jargon. Financial Accounting DeMYSTiFieD presents all the concepts and skills you need, in a language you understand. Designed to let you learn at your own pace, it explains all the rules for preparing and reporting accounting information to parties outside an organization. Then, you'll get details on basic financial accounting concepts, valuing inventories, accounting methods, stockholder's equity, receivables, and more. Featuring end-of-chapter quizzes and a final exam, Financial Accounting DeMYSTiFieD teaches you the ins and outs of financial accounting in no time at all! This fast and easy guide offers: Expert coverage of financial statements, cash and short-term investments, receivables, cash flows, liabilities tips, techniques, and insights that drive home key financial accounting principles and theories Hundreds of worked-out examples, chapter-ending quizzes, and a final exam to reinforce learning and pinpoint weaknesses Specific recommendations if you're having difficulty with certain subtopics Simple enough for a beginner, but challenging enough for an advanced student, Financial Accounting DeMYSTiFieD is a shortcut to developing a working knowledge of accounting practices.

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

Microsoft Office 2010 Demystified

Interest Rates, Equities and Foreign Exchange

Fluid Mechanics DeMYSTiFieD

Dynamical Systems with Applications Using Mathematica®

Mathematische Problemlösungen für Ingenieure, Mathematiker und Naturwissenschaftler

LEARNING CALCULUS JUST GOT A LOT EASIER! Here's an innovative shortcut to gaining a more intuitive understanding of both differential and integral calculus. In Calculus Demystified an experienced teacher and author of more than 30 books puts all the math background you need inside and uses practical examples, real data, and a totally different approach to mastering calculus. With Calculus Demystified you ease into the subject one simple step at a time – at your own speed. A user-friendly, accessible style incorporating frequent reviews, assessments, and the actual application of ideas helps you to understand and retain all the important concepts. THIS ONE-OF-A-KIND SELF-TEACHING TEXT OFFERS: Questions at the end of each chapter and section to reinforce learning and pinpoint weaknesses A 100-question final exam for self-assessment Detailed examples and solutions Numerous "Math Notes" and "You Try It" items to gauge progress and make learning more enjoyable An easy-to-absorb style – perfect for those without a mathematics background If you've been looking for a painless way to learn calculus, refresh your skills, or improve your classroom performance, your search ends here.

Accounting as easy as 1-2-3! Do you know the difference between FIFO and LIFO? Can you use the word dilutive in a sentence? Does the phrase "amortization of bond premiums" mean anything to you? No one said the journey to becoming a CPA is easy—but with Intermediate Accounting DeMYSTiFieD as your travel companion, you're guaranteed a smooth ride. An easy-to-use self-teaching guide that reviews and expands upon core Generally Accepted Accounting Principles (GAAP), Intermediate Accounting DeMYSTiFieD covers everything you need to ace your exams and take a big step toward the career of your dreams. The book provides a fresh review of all the basics, so you can easily glide into more advanced principles. You'll learn how to generate accurate and reliable financial statements, maintain proper internal controls within a company, and locate international accounting standards. This fast and easy guide offers: Tactics for maintaining solid internal controls within a business Strategies for creating accurate financial statements Techniques for overcoming common accounting errors Quizzes and a final exam for gauging what you've learned Tips and examples for mastering more advanced accounting theories Simple enough for a novice but challenging enough for an advanced student, Intermediate Accounting DeMYSTiFieD is your key to mastering this vital life sciences subject.

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