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The Universe in a Nutshell *R in a Nutshell Astrophysics in a Nutshell Unix in a Nutshell Love in a Nutshell Einstein Gravity in a Nutshell EBOOK: Positive Psychology in a Nutshell: The Science of Happiness In a Nutshell C++ In a Nutshell C# 5.0 in a Nutshell The Standard Model in a Nutshell String Theory in a Nutshell Group Theory in a Nutshell for Physicists Python in a Nutshell Nuclear Physics in a Nutshell In a Nutshell Celestial Navigation in a Nutshell XAML in a Nutshell Java in a Nutshell Quantum Field Theory in a Nutshell Quantum Many-Body Physics in a Nutshell VBScript in a Nutshell Statistical Mechanics in a Nutshell Knowledge in a Nutshell on Sports Classical Electromagnetism in a Nutshell Swissness in a Nutshell String Theory in a Nutshell Knowledge in a Nutshell on America VB & VBA in a Nutshell: The Language Algorithms in a Nutshell Elementary Particle Physics in a Nutshell XML in a Nutshell Java in a Nutshell Quantum Mechanics in a Nutshell Python in a Nutshell Linux in a Nutshell Tcl/Tk in a Nutshell MBA in a Nutshell: The Classic Accelerated Learner Program Webmaster in a Nutshell Web Design in a Nutshell*

String Theory in a Nutshell Feb 08 2021 Publisher description

VBScript in a Nutshell Jul 16 2021 The second edition of this concise guide to VBScript includes additional chapters and a complete reference that has been fully updated to cover all aspects of the latest version of the software. The book will make a useful addition to the desk of all Web application developers and system administrators.

Elementary Particle Physics in a Nutshell Oct 07 2020 The new experiments underway at the Large Hadron Collider at CERN in Switzerland may significantly change our understanding of elementary particle physics and, indeed, the universe. Suitable for first-year graduate students and advanced undergraduates, this textbook provides an introduction to the field

C# 5.0 in a Nutshell Jul 28 2022 Offers a reference to key C# programming concepts covering language elements, syntax, datatypes, and tasks.

Quantum Field Theory in a Nutshell Sep 17 2021 A fully updated edition of the classic text by acclaimed physicist A. Zee Since it was first published, *Quantum Field Theory in a Nutshell* has quickly established itself as the most accessible and comprehensive introduction to this profound and deeply fascinating area of theoretical physics. Now in this fully revised and expanded edition, A. Zee covers the latest advances while providing a solid conceptual foundation for students to build on, making this the most up-to-date and modern textbook on quantum field theory available. This expanded edition features several additional chapters, as well as an entirely new section describing recent developments in quantum field theory such as gravitational waves, the helicity spinor formalism, on-shell gluon scattering, recursion relations for amplitudes with complex momenta, and the hidden connection between Yang-Mills theory and Einstein gravity. Zee also provides added exercises, explanations, and examples, as well as detailed appendices, solutions to selected exercises, and suggestions for further reading. The most accessible and comprehensive introductory textbook available Features a fully revised, updated, and expanded text Covers the latest exciting advances in the field Includes new exercises Offers a one-of-a-kind resource for students and researchers Leading universities that have adopted this book include: Arizona State University Boston University Brandeis University Brown University California Institute of Technology Carnegie Mellon College of William & Mary Cornell Harvard University Massachusetts Institute of Technology Northwestern University Ohio State University Princeton University Purdue University - Main Campus Rensselaer Polytechnic Institute Rutgers University - New Brunswick Stanford University University of California - Berkeley University of Central Florida University of Chicago University of Michigan University of Montreal University of Notre Dame Vanderbilt University Virginia Tech University

The Universe in a Nutshell May 06 2023 Stephen Hawking's phenomenal, multimillion-copy bestseller, *A Brief History of Time*, introduced the ideas of this brilliant theoretical physicist to readers all over the world. Now, in a major publishing event, Hawking returns with a lavishly illustrated sequel that unravels the mysteries of the major breakthroughs that have occurred in the years since the release of his acclaimed first book. *The Universe in a Nutshell* • Quantum mechanics • M-theory • General relativity • 11-dimensional supergravity • 10-dimensional membranes • Superstrings • P-branes • Black holes One of the most influential thinkers of our time, Stephen Hawking is an intellectual icon, known not only for the adventurousness of his ideas but for the clarity and wit with which he expresses them. In this new book Hawking takes us to the cutting edge of theoretical physics, where truth is often stranger than fiction, to explain in laymen's terms the principles that control our universe. Like many in the community of theoretical physicists, Professor Hawking is seeking to uncover the grail of science — the elusive Theory of Everything that lies at the heart of the cosmos. In his accessible and often playful style, he guides us on his search to uncover the secrets of the universe — from supergravity to supersymmetry, from quantum theory to M-theory, from holography to duality. He takes us to the wild frontiers of science, where superstring theory and p-branes may hold the final clue to the puzzle. And he lets us behind the scenes of one of his most exciting intellectual adventures as he seeks "to combine Einstein's General Theory of Relativity and Richard Feynman's idea of multiple histories into one complete unified theory that will describe everything that happens in the universe." With characteristic exuberance, Professor Hawking invites us to be fellow travelers on this extraordinary voyage through space-time. Copious four-color illustrations help clarify this journey into a surreal wonderland where particles, sheets, and strings move in eleven dimensions; where black holes evaporate and disappear, taking their secret with them; and where the original cosmic seed from which our own universe sprang was a tiny nut. *The Universe in a Nutshell* is essential reading for all of us who want to understand the universe in which we live. Like its companion volume, *A Brief History of Time*, it conveys the excitement felt within the scientific community as the secrets of the cosmos reveal themselves.

EBOOK: Positive Psychology in a Nutshell: The Science of Happiness Oct 31 2022 "The best general introduction to positive psychology available." Dr Alex Linley, University of Leicester, UK "Dr Ilona Boniwell is recognized as Europe's leading researcher, innovator and thinker in the expanding world of positive psychology. *Positive Psychology in a Nutshell* offers something for everyone with an interest in discovering how to live optimally. This brilliant littlebook is packed with scientific evidence identifying the key ingredients that help to create a happy life. Read it and learn how to change yours for the better." Dr Cecilia d'Felice, Consultant Psychologist, Author and Columnist for *The Times* and *The Metro* "Positive Psychology in a Nutshell is a little gem of a book, beautifully and engagingly written, and having the marks of a cogent teacher who has mastered the contemporary structure, bounds and outreach of her field. This is a 'must read', and a welcome antidote for all those engaged in the caring professions." Richard Whitfield, Human Development Specialist, Educator, Poet and Chairman of Trustees of the Face-to-Face Trust "As good an introduction to positive psychology as you can read. A must-read book for all those involved in the education and health industries." Dr Anthony Seldon, Master, Wellington College, Berkshire, UK "Positive Psychology in a Nutshell is a comprehensive, user friendly, thoughtful introduction and critique of the field. Simply put, it is the best overview out there that can be read in a couple of sittings. Those with no psychology background find it fascinating and informative; those with serious credentials find it to be a credible overview and critique of the field." Dr Carol Kauffman, Co-founder and Director of the Coaching and Positive Psychology Initiative, Harvard Medical School, USA "In a nutshell, I could scarcely put down this intelligent, balanced and irresistible introduction to positive psychology!" Dr Sean Cameron, Co-Director, Practitioner Doctorate in Educational Psychology, University College London, UK "It is very readable, seductively so, and is no doubt as good an introduction to the subject as you can get ... Emotional wellbeing is complex and there are useful insights here to shore up the flabby phrases tossed around by politicians ... There are some parts of this book I will use and anyone who wants to find out about positive psychology should start here." Mike Shooter is a child psychiatrist and President of BACP, UK When you hear the words 'positive psychology' or 'the science of well-being', do you wonder what it's all about? 'What makes us fulfilled?' and 'Is happiness necessary for a good life?' Discover the latest thinking on the topics of happiness, flow, optimism, motivation, character strengths and love, and learn how to apply it to your life. Ilona Boniwell presents an engaging overview of the science of optimal functioning and well-being, which combines real readability with a broad academic base applied to day-to-day life. Now fully updated and enhanced with new material on how to: Change your mindset Practice mindfulness Develop better resilience Enhance your well-being at work Adopt positive leadership Introducing positive psychology in a friendly, straightforward way, this international bestseller is peppered with many simple tools and tips for daily living that will help you love your life.

Algorithms in a Nutshell Nov 07 2020 This updated edition of 'Algorithms in a Nutshell' describes a large number of existing algorithms for solving a variety of problems, and helps you select and implement the right algorithm for your needs.

Celestial Navigation in a Nutshell Dec 21 2021 Hewitt Schlereth is a writer and sailing enthusiast.

In a Nutshell Sep 29 2022 An acorn grows into a mighty oak, helps sustain other life, and eventually dies and continues to give life to others.

Python in a Nutshell Jun 02 2020 Demonstrates the programming language's strength as a Web development tool, covering syntax, data types, built-ins, the Python standard module library, and real world examples.

In a Nutshell Jan 22 2022 An acorn grows into a mighty oak, helps sustain other life, and eventually dies and continues to give life to others.

The Standard Model in a Nutshell Jun 26 2022 A concise and authoritative introduction to one of the central theories of modern physics For a theory as genuinely elegant as the Standard Model—the current framework describing elementary particles and their forces—it can sometimes appear to students to be little more than a complicated collection of particles and ranked list of interactions. *The Standard Model in a Nutshell* provides a comprehensive and uncommonly accessible introduction to one of the most important subjects in modern physics, revealing why, despite initial appearances, the entire framework really is as elegant as physicists say. Dave Goldberg uses a "just-in-time" approach to instruction that enables students to gradually develop a deep understanding of the Standard Model even if this is their first exposure to it. He covers everything from relativity, group theory, and relativistic quantum mechanics to the Higgs boson, unification schemes, and physics beyond the Standard Model. The book also looks at new avenues of research that could answer still-unresolved questions and features numerous worked examples, helpful illustrations, and more than 120 exercises. Provides an essential introduction to the Standard Model for graduate students and advanced undergraduates across the physical sciences Requires no more than an undergraduate-level exposure to quantum mechanics, classical mechanics, and electromagnetism Uses a "just-in-time" approach to topics such as group theory, relativity, classical fields, Feynman diagrams, and quantum field theory Couched in a conversational tone to make reading and learning easier Ideal for a one-semester course or independent study Includes a wealth of examples, illustrations, and exercises Solutions manual (available only to professors)

Unix in a Nutshell Feb 03 2023 As an open operating system, Unix can be improved on by anyone and everyone: individuals, companies, universities, and more. As a result, the very nature of Unix has been altered over the years by numerous extensions formulated in an assortment of versions. Today, Unix encompasses everything from Sun's Solaris to Apple's Mac OS X and more varieties of Linux than you can easily name. The latest edition of this bestselling reference brings Unix into the 21st century. It's been reworked to keep current

with the broader state of Unix in today's world and highlight the strengths of this operating system in all its various flavors. Detailing all Unix commands and options, the informative guide provides generous descriptions and examples that put those commands in context. Here are some of the new features you'll find in Unix in a Nutshell, Fourth Edition Solaris 10, the latest version of the SVR4-based operating system, GNU/Linux, and Mac OS X Bash shell (along with the 1988 and 1993 versions of ksh) tsch shell (instead of the original Berkeley csh) Package management programs, used for program installation on popular GNU/Linux systems, Solaris and Mac OS X GNU Emacs Version 21 Introduction to source code management systems Concurrent versions system Subversion version control system GDB debugger As Unix has progressed, certain commands that were once critical have fallen into disuse. To that end, the book has also dropped material that is no longer relevant, keeping it taut and current. If you're a Unix user or programmer, you'll recognize the value of this complete, up-to-date Unix reference. With chapter overviews, specific examples, and detailed command.

Web Design in a Nutshell Dec 29 2019 Details a variety of front-end technologies and techniques and reviews Web design fundamentals while explaining how to work with HTML, graphics, and multimedia and interactive applications.

Python in a Nutshell Mar 24 2022 This new title offers Python programmers one place to look when they need help remembering or deciphering the most important tools and modules of this open source language.

Love in a Nutshell Jan 02 2023 Lacking the money to open a bed and breakfast in her parents' summer house in Michigan, former magazine editor Kate takes a questionable undercover job from a brewery owner who wants to find out who has been sabotaging his company, a situation that is compromised by Kate's distaste for beer and her crush on her employer. Co-written the best-selling author of the Stephanie Plum series. 1 million first printing.

Classical Electromagnetism in a Nutshell Apr 12 2021 A comprehensive, modern introduction to electromagnetism This graduate-level physics textbook provides a comprehensive treatment of the basic principles and phenomena of classical electromagnetism. While many electromagnetism texts use the subject to teach mathematical methods of physics, here the emphasis is on the physical ideas themselves. Anupam Garg distinguishes between electromagnetism in vacuum and that in material media, stressing that the core physical questions are different for each. In vacuum, the focus is on the fundamental content of electromagnetic laws, symmetries, conservation laws, and the implications for phenomena such as radiation and light. In material media, the focus is on understanding the response of the media to imposed fields, the attendant constitutive relations, and the phenomena encountered in different types of media such as dielectrics, ferromagnets, and conductors. The text includes applications to many topical subjects, such as magnetic levitation, plasmas, laser beams, and synchrotrons. Classical Electromagnetism in a Nutshell is ideal for a yearlong graduate course and features more than 300 problems, with solutions to many of the advanced ones. Key formulas are given in both SI and Gaussian units; the book includes a discussion of how to convert between them, making it accessible to adherents of both systems. Offers a complete treatment of classical electromagnetism Emphasizes physical ideas Separates the treatment of electromagnetism in vacuum and material media Presents key formulas in both SI and Gaussian units Covers applications to other areas of physics Includes more than 300 problems

Swissness in a Nutshell Mar 12 2021 What is Switzerland? With more than two hundred full-colour cartoons, photos, and works of art, this accessible guide illuminates the unique alpine nation. From William Tell to Heidi, Swiss Army Knives to cheese, litter-free streets to punctual trains. Winner of the 2013 Albert Oeri Democracy Prize.

Knowledge in a Nutshell on America Jan 10 2021

String Theory in a Nutshell May 26 2022 The essential introduction to modern string theory—now fully expanded and revised String Theory in a Nutshell is the definitive introduction to modern string theory. Written by one of the world's leading authorities on the subject, this concise and accessible book starts with basic definitions and guides readers from classic topics to the most exciting frontiers of research today. It covers perturbative string theory, the unity of string interactions, black holes and their microscopic entropy, the AdS/CFT correspondence and its applications, matrix model tools for string theory, and more. It also includes 600 exercises and serves as a self-contained guide to the literature. This fully updated edition features an entirely new chapter on flux compactifications in string theory, and the chapter on AdS/CFT has been substantially expanded by adding many applications to diverse topics. In addition, the discussion of conformal field theory has been extensively revised to make it more student-friendly. The essential one-volume reference for students and researchers in theoretical high-energy physics Now fully expanded and revised Provides expanded coverage of AdS/CFT and its applications, namely the holographic renormalization group, holographic theories for Yang-Mills and QCD, nonequilibrium thermal physics, finite density physics, and entanglement entropy Ideal for mathematicians and physicists specializing in theoretical cosmology, QCD, and novel approaches to condensed matter systems An online illustration package is available to professors

Statistical Mechanics in a Nutshell Jun 14 2021 A concise introduction to statistical mechanics Statistical mechanics is one of the most exciting areas of physics today, and it also has applications to subjects as diverse as economics, social behavior, algorithmic theory, and evolutionary biology. Statistical Mechanics in a Nutshell offers the most concise, self-contained introduction to this rapidly developing field. Requiring only a background in elementary calculus and elementary mechanics, this book starts with the basics, introduces the most important developments in classical statistical mechanics over the last thirty years, and guides readers to the very threshold of today's cutting-edge research. Statistical Mechanics in a Nutshell zeroes in on the most relevant and promising advances in the field, including the theory of phase transitions, generalized Brownian motion and stochastic dynamics, the methods underlying Monte Carlo simulations, complex systems—and much, much more. The essential resource on the subject, this book is the most up-to-date and accessible introduction available for graduate students and advanced undergraduates seeking a succinct primer on the core ideas of statistical mechanics. Provides the most concise, self-contained introduction to statistical mechanics Focuses on the most promising advances, not complicated calculations Requires only elementary calculus and elementary mechanics Guides readers from the basics to the threshold of modern research Highlights the broad scope of applications of statistical mechanics

Einstein Gravity in a Nutshell Dec 01 2022 An ideal introduction to Einstein's general theory of relativity This unique textbook provides an accessible introduction to Einstein's general theory of relativity, a subject of breathtaking beauty and supreme importance in physics. With his trademark blend of wit and incisiveness, A. Zee guides readers from the fundamentals of Newtonian mechanics to the most exciting frontiers of research today, including de Sitter and anti-de Sitter spacetimes, Kaluza-Klein theory, and brane worlds. Unlike other books on Einstein gravity, this book emphasizes the action principle and group theory as guides in constructing physical theories. Zee treats various topics in a spiral style that is easy on beginners, and includes anecdotes from the history of physics that will appeal to students and experts alike. He takes a friendly approach to the required mathematics, yet does not shy away from more advanced mathematical topics such as differential forms. The extensive discussion of black holes includes rotating and extremal black holes and Hawking radiation. The ideal textbook for undergraduate and graduate students, Einstein Gravity in a Nutshell also provides an essential resource for professional physicists and is accessible to anyone familiar with classical mechanics and electromagnetism. It features numerous exercises as well as detailed appendices covering a multitude of topics not readily found elsewhere. Provides an accessible introduction to Einstein's general theory of relativity Guides readers from Newtonian mechanics to the frontiers of modern research Emphasizes symmetry and the Einstein-Hilbert action Covers topics not found in standard textbooks on Einstein gravity Includes interesting historical asides Features numerous exercises and detailed appendices Ideal for students, physicists, and scientifically minded lay readers Solutions manual (available only to teachers)

Nuclear Physics in a Nutshell Feb 20 2022 This title provides an overview of the atomic nucleus and the theories that seek to explain it. Bringing together a systematic explanation of hadrons, nuclei, and stars for the first time, the author provides the core material needed by students of physics to acquire a solid understanding of nuclear and particle science.

C++ In a Nutshell Aug 29 2022 To-the-point, authoritative, no-nonsense solutions have always been a trademark of O'Reilly books. The In a Nutshell books have earned a solid reputation in the field as the well-thumbed references that sit beside the knowledgeable developer's keyboard. C++ in a Nutshell lives up to the In a Nutshell promise. C++ in a Nutshell is a lean, focused reference that offers practical examples for the most important, most often used, aspects of C++.C++ in a Nutshell packs an enormous amount of information on C++ (and the many libraries used with it) in an indispensable quick reference for those who live in a deadline-driven world and need the facts but not the frills.The book's language reference is organized first by topic, followed by an alphabetical reference to the language's keywords, complete with syntax summaries and pointers to the topic references. The library reference is organized by header file, and each library chapter and class declaration presents the classes and types in alphabetical order, for easy lookup. Cross-references link related methods, classes, and other key features. This is an ideal resource for students as well as professional programmers.When you're programming, you need answers to questions about language syntax or parameters required by library routines quickly. What, for example, is the C++ syntax to define an alias for a namespace? Just how do you create and use an iterator to work with the contents of a standard library container? C++ in a Nutshell is a concise desktop reference that answers these questions, putting the full power of this flexible, adaptable (but somewhat difficult to master) language at every C++ programmer's fingertips.

Tcl/Tk in a Nutshell Mar 31 2020 A quick reference guide to the Tcl language and Tk graphical toolkit explains how to use them to create a range of custom applications and describes every option and command in the core Tcl/Tk distribution. Original. (Intermediate).

Astrophysics in a Nutshell Mar 04 2023 The ideal one-semester astrophysics introduction for science undergraduates—now expanded and fully updated Winner of the American Astronomical Society's Chambliss Award, Astrophysics in a Nutshell has become the text of choice in astrophysics courses for science majors at top universities in North America and beyond. In this expanded and fully updated second edition, the book gets even better, with a new chapter on extrasolar planets; a greatly expanded chapter on the interstellar medium; fully updated facts and figures on all subjects, from the observed properties of white dwarfs to the latest results from precision cosmology; and additional instructive problem sets. Throughout, the text features the same focused, concise style and emphasis on physics intuition that have made the book a favorite of students and teachers. Written by Dan Maoz, a leading active researcher, and designed for advanced undergraduate science majors, Astrophysics in a Nutshell is a brief but thorough introduction to the observational data and theoretical concepts underlying modern astronomy. Generously illustrated, it covers the essentials of modern astrophysics, emphasizing the common physical principles that govern astronomical phenomena, and the interplay between theory and observation, while also introducing subjects at the forefront of modern research, including black holes, dark matter, dark energy, and gravitational lensing. In addition to serving as a course textbook, Astrophysics in a Nutshell is an ideal review for a qualifying exam and a handy reference for teachers and researchers. The most concise and current astrophysics textbook for science majors—now expanded and fully updated with the latest research results Contains a broad and well-balanced selection of traditional and current topics Uses simple, short, and clear derivations of physical results Trains students in the essential skills of order-of-magnitude analysis Features a new chapter on extrasolar planets, including discovery techniques Includes new and expanded sections and problems on the physics of shocks, supernova remnants, cosmic-ray acceleration, white dwarf properties, baryon acoustic oscillations, and more Contains instructive problem sets at the end of each chapter Solutions manual (available only to professors)

Linux in a Nutshell May 02 2020 Everything you need to know about Linux is in this book. Written by Stephen Figgins, Ellen Siever, Robert Love, and Arnold Robbins -- people with years of active participation in the Linux community -- Linux in a Nutshell, Sixth Edition, thoroughly covers programming tools, system and network administration tools, the shell, editors, and LILO and GRUB boot loaders. This updated edition offers a tighter focus on Linux system essentials, as well as more coverage of new capabilities such as virtualization, wireless network management, and revision control with git. It also highlights the most important options for using the vast number of Linux commands. You'll find many helpful new tips and techniques in this reference, whether you're new to this operating system or have been using it for years. Get the Linux commands for system administration

and network management Use hundreds of the most important shell commands available on Linux Understand the Bash shell command-line interpreter Search and process text with regular expressions Manage your servers via virtualization with Xen and VMware Use the Emacs text editor and development environment, as well as the vi, ex, and vim text-manipulation tools Process text files with the sed editor and the gawk programming language Manage source code with Subversion and git
VB & VBA in a Nutshell: The Language Dec 09 2020 Collects and defines the programming languages' statements, procedures, and functions, covering syntax, standard code conventions, differences of operation, data type, undocumented behaviors, and practical applications

Knowledge in a Nutshell on Sports May 14 2021 So if you love wild, wacky, absolutely true sports facts; real-life bizarre accounts; or history so shocking the record books left it out, you'll have heaps of fun with this endlessly entertaining book. Book jacket.

R in a Nutshell Apr 05 2023 Presents a guide to the R computer language, covering such topics as the user interface, packages, syntax, objects, functions, object-oriented programming, data sets, lattice graphics, regression models, and bioconductor.

XAML in a Nutshell Nov 19 2021 Provides information on XAML, a declarative language used to build user interfaces.

Java in a Nutshell Oct 19 2021 Aimed at experienced Java programmers, offers up-to-date information for programming with Java 7 and 8, covering topics such as Java syntax, memory and concurrency, conventions, Collections API, and Nashorn.

Group Theory in a Nutshell for Physicists Apr 24 2022 A concise, modern textbook on group theory written especially for physicists Although group theory is a mathematical subject, it is indispensable to many areas of modern theoretical physics, from atomic physics to condensed matter physics, particle physics to string theory. In particular, it is essential for an understanding of the fundamental forces. Yet until now, what has been missing is a modern, accessible, and self-contained textbook on the subject written especially for physicists. Group Theory in a Nutshell for Physicists fills this gap, providing a user-friendly and classroom-tested text that focuses on those aspects of group theory physicists most need to know. From the basic intuitive notion of a group, A. Zee takes readers all the way up to how theories based on gauge groups could unify three of the four fundamental forces. He also includes a concise review of the linear algebra needed for group theory, making the book ideal for self-study. Provides physicists with a modern and accessible introduction to group theory Covers applications to various areas of physics, including field theory, particle physics, relativity, and much more Topics include finite group and character tables; real, pseudoreal, and complex representations; Weyl, Dirac, and Majorana equations; the expanding universe and group theory; grand unification; and much more The essential textbook for students and an invaluable resource for researchers Features a brief, self-contained treatment of linear algebra An online illustration package is available to professors Solutions manual (available only to professors)

XML in a Nutshell Sep 05 2020 A reference to the fundamental rules of XML details tags, grammar, placement, element names, attributes, and syntax.

Quantum Many-Body Physics in a Nutshell Aug 17 2021 The ideal textbook for a one-semester introductory course for graduate students or advanced undergraduates This book provides an essential introduction to the physics of quantum many-body systems, which are at the heart of atomic and nuclear physics, condensed matter, and particle physics. Unlike other textbooks on the subject, it covers topics across a broad range of physical fields—phenomena as well as theoretical tools—and does so in a simple and accessible way. Edward Shuryak begins with Feynman diagrams of the quantum and statistical mechanics of a particle; in these applications, the diagrams are easy to calculate and there are no divergencies. He discusses the renormalization group and illustrates its uses, and covers systems such as weakly and strongly coupled Bose and Fermi gases, electron gas, nuclear matter, and quark-gluon plasmas. Phenomena include Bose condensation and superfluidity. Shuryak also looks at Cooper pairing and superconductivity for electrons in metals, liquid ³He, nuclear matter, and quark-gluon plasma. A recurring topic throughout is topological matter, ranging from ensembles of quantized vortices in superfluids and superconductors to ensembles of colored (QCD) monopoles and instantons in the QCD vacuum. Proven in the classroom, Quantum Many-Body Physics in a Nutshell is the ideal textbook for a one-semester introductory course for graduate students or advanced undergraduates. Teaches students how quantum many-body systems work across many fields of physics Uses path integrals from the very beginning Features the easiest introduction to Feynman diagrams available Draws on the most recent findings, including trapped Fermi and Bose atomic gases Guides students from traditional systems, such as electron gas and nuclear matter, to more advanced ones, such as quark-gluon plasma and the QCD vacuum

Java in a Nutshell Aug 05 2020 David Flanagan appears as author on previous editions.

Webmaster in a Nutshell Jan 28 2020 Webmaster in a Nutshell is a collection of reference material on everything web developers need to know to do their jobs quickly and effectively. Since the first edition of this book, the Web has matured, web technology has evolved, and venture capitalists have moved on to the next bubble. But the Web remains a vibrant, essential medium, and webmasters are what make it hum. This third edition of the book has been updated to the latest versions of Apache, PHP, and JavaScript. It also includes more detailed information on mod_perl and on improving performance on the Web. The book covers HTML 4.01, CSS, XML and XSLT, JavaScript 1.5, PHP 4, HTTP 1.1, Apache 2.0, and much more. Webmaster in a Nutshell makes it easy to find the information you want on the technologies you use. You'll keep your other books on your shelf ; you'll keep Webmaster in a Nutshell next to your keyboard.

Quantum Mechanics in a Nutshell Jul 04 2020 Covering the fundamentals as well as many special topics of current interest, this is the most concise, up-to-date, and accessible graduate-level textbook on quantum mechanics available. Written by Gerald Mahan, a distinguished research physicist and author of an acclaimed textbook on many-particle physics, Quantum Mechanics in a Nutshell is the distillation of many years' teaching experience. Emphasizing the use of quantum mechanics to describe actual quantum systems such as atoms and solids, and rich with interesting applications, the book proceeds from solving for the properties of a single particle in potential; to solving for two particles (the helium atom); to addressing many-particle systems. Applications include electron gas, magnetism, and Bose-Einstein Condensation; examples are carefully chosen and worked; and each chapter has numerous homework problems, many of them original. Quantum Mechanics in a Nutshell expertly addresses traditional and modern topics, including perturbation theory, WKB, variational methods, angular momentum, the Dirac equation, many-particle wave functions, Casimir Force, and Bell's Theorem. And it treats many topics--such as the interactions between photons and electrons, scattering theory, and density functional theory--in exceptional depth. A valuable addition to the teaching literature, Quantum Mechanics in a Nutshell is ideally suited for a two-semester course. The most concise, up-to-date, and accessible graduate textbook on the subject Contains the ideal amount of material for a two-semester course Focuses on the description of actual quantum systems, including a range of applications Covers traditional topics, as well as those at the frontiers of research Treats in unprecedented detail topics such as photon-electron interaction, scattering theory, and density functional theory Includes numerous homework problems at the end of each chapter

MBA in a Nutshell: The Classic Accelerated Learner Program Feb 29 2020 Master MBA key concepts without stepping foot in a classroom Save yourself the thousands of dollars it cost for an MBA education. Dr. Milo Sobel presents core concepts taught in prestigious MBA programs such as Harvard, Wharton, and Stanford—without the heavy price tag and heavier classroom hours. With MBA in a Nutshell, you can quickly and easily implement essential MBA core curriculum into your professional life—stripping away useless theory and focusing on practical application, which is what you really need to be successful in business. In MBA in a Nutshell, you'll learn how to: Accelerate and increase incoming cash flow Assess and rank investment opportunities Evaluate company performance using financial statements Follow step-by-step instruction to draft strategic business plans Turn uncertain business forecasts into reliable estimates Find ways to increase revenue and profit while dramatically reducing costs Chock-full of practical examples, formulas, and concepts and skills that can be immediately used and implemented, MBA in a Nutshell is a must-read to build skills to enhance your career and help your company grow and succeed.

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