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Spatial Cognitive Engine Technology Jianjun Zhang,Jing Li.2023-06-15 Spatial Cognitive Engine Technology discusses the increase in user demand for satellite wireless communication services that has led to the increasing development of spectrum resources and the fixed spectrum allocation mode which makes the utilization rate of spectrum resources lower. As an intelligent spectrum sharing technology, cognitive radio has innovated the traditional spectrum management system and is one of the effective ways to solve the above-mentioned problems. As the core of satellite cognitive radio, the spatial cognitive engine can use artificial intelligence to dynamically configure working parameters according to changes in the communication environment and user needs. Describes the concept of cognitive engine from the perspective of the spatial cognitive cycle Includes coverage of in-depth research on the input module of the spatial cognition engine, the environmental perception module Provides in-depth research that has been conducted on the learning reasoning and optimization decision-making modules of the spatial cognition engine Covers the cross-layer optimization of the spatial cognition engine to realize an intelligent and complete satellite communication mechanism

Energy Research Abstracts .1987

Understanding Light Microscopy Jeremy Sanderson.2019-03-04 Introduces readers to the enlightening world of the modern light microscope There have been rapid advances in science and technology over the last decade, and the light microscope, together with the information that it gives about the image, has changed too. Yet the fundamental principles of setting up and using a microscope rests upon unchanging physical principles that have been understood for years. This informative, practical, full-colour guide fills the gap between specialised edited texts on detailed research topics, and introductory books, which concentrate on an optical approach to the light microscope. It also provides comprehensive coverage of confocal microscopy, which has revolutionised light microscopy over the last few decades. Written to help the

reader understand, set up, and use the often very expensive and complex modern research light microscope properly, Understanding Light Microscopy keeps mathematical formulae to a minimum—containing and explaining them within boxes in the text. Chapters provide in-depth coverage of basic microscope optics and design; ergonomics; illumination; diffraction and image formation; reflected-light, polarised-light, and fluorescence microscopy; deconvolution; TIRF microscopy; FRAP & FRET; super-resolution techniques; biological and materials specimen preparation; and more. Gives a didactic introduction to the light microscope Encourages readers to use advanced fluorescence and confocal microscopes within a research institute or core microscopy facility Features full-colour illustrations and workable practical protocols Understanding Light Microscopy is intended for any scientist who wishes to understand and use a modern light microscope. It is also ideal as supporting material for a formal taught course, or for individual students to learn the key aspects of light microscopy through their own study.

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High School Physics Unlocked The Princeton Review.2016-11-29 UNLOCK THE SECRETS OF PHYSICS with THE PRINCETON REVIEW. High School Physics Unlocked focuses on giving you a wide range of key lessons to help increase your understanding of physics. With this book, you'll move from foundational concepts to complicated, real-world applications, building confidence as your skills improve. End-of-chapter drills will help test your comprehension of each facet of physics, from mechanics to magnetic fields. Don't feel locked out! Everything You Need to Know About Physics. • Complex concepts explained in straightforward ways • Clear goals and self-assessments to help you pinpoint areas for further review • Bonus chapter on modern physics Practice Your Way to Excellence. • 340+ hands-on practice questions in the book and online • Complete answer explanations to boost understanding, plus extended, step-by-step solutions for all drill questions online • Bonus online questions similar to those you'll find on the AP Physics 1, 2, and C Exams and the SAT Physics Subject Test High School Physics Unlocked covers: • One- and Multi-dimensional Motion • Forces and Mechanics • Energy and Momentum • Gravity and Satellite Motion • Thermodynamics • Waves and Sound • Electric Interactions and Electric Circuits • Magnetic Interactions • Light and Optics ... and more!

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Soviet Life .1984

The Software Encyclopedia .1988

Mastering UI Development with Unity Ashley Godbold.2018-04-30 Master Game UI system by creating captivating user interface components with Unity 5 through Unity 2018 and C#. Learn about UI texts, images, world space UI, mobile-specific UI and much more. Key Features Develop a game UI with both technical and aesthetic considerations Use all the UI elements provided by Unity's UI system Step-by-step examples of creating user interface components in the top game genres Book Description A functional UI is an important component for player interaction in every type of video game. Along with

imparting crucial statistical information to the player, the UI is also the window through which the player engages with the world established by the game. Unity's tools give you the opportunity to create complex and attractive UIs to make your game stand out. This book helps you realize the full potential of Unity's powerful tools to create the best UI for your games by walking you through the creation of myriad user interface components. Learn how to create visually engaging heads-up-displays, pause menus, health bars, circular progress bars, animated menus, and more. This book not only teaches how to lay out visual elements, but also how to program these features and implement them across multiple games of varying genres. While working through the examples provided, you will learn how to develop a UI that scales to multiple screen resolutions, so your game can be released on multiple platforms with minimal changes. What you will learn Design principles and patterns for laying out elements in your UI Techniques that allow your UI to scale appropriately in different resolutions How to use automatic layouts to streamline your UI building process Properties of the Event System and how to appropriately hook events to your UI elements Access the components and properties of UI elements via code Implement all of Unity's built-in UI elements as well as those provided by TextMeshPro Develop key UI components that are popularly used in multiple game genres Add visual flare to user interfaces with the use of animation and particle effects Create a UI that displays in the Screen Space as well as World Space Who this book is for This book is for anyone keen to improve their games via a great user interface with Unity's UI system. If you're looking for a book that explains how to develop specific user interfaces or that thoroughly explains how each of the individual Unity components work, this book is for you.

Soviet Astronomy .1993

Physics James S. Walker.2007 This text for courses in introductory algebra-based physics features a combination of pedagogical tools - exercises, worked examples, active examples and conceptual checkpoints.

How to Solve Physics Problems Daniel Milton Oman,Robert Milton Oman.2016-01-01 Learn how to solve physics problems the right way How to Solve Physics Problems will prepare you for physics exams by focusing on problem-solving. You will learn to solve physics problems naturally and systematically--and in a way that will stick with you. Not only will it help you with your homework, it will give you a clear idea of what you can expect to encounter on exams. 400 physics problems thoroughly illustrated and explained Math review for the right start New chapters on quantum physics; atoms, molecules, and solids; and nuclear physics

Mastering Unity 5.x Alan Thorn.2017-01-27 Create amazing games with solid gameplay features, using a professional-grade workflow inside the Unity engine! About This Book Become a Unity master by creating a practical, in-depth game-development project with Unity Use advanced C# scripting to unlock the complete potential of Unity 5 Use Version Control to Effectively Manage and Scale your workflow Who This Book Is For If you are a Unity developer who now wants to develop and deploy interesting games by leveraging the new features of Unity 5.x, then this is the book for you. Basic knowledge of

C# programming is assumed. What You Will Learn Explore hands-on tasks and real-world scenarios to make a Unity horror adventure game Create enemy characters that act intelligently and make reasoned decisions Use data files to save and restore game data in a way that is platform-agnostic Get started with VR development Use Navigation Meshes, Occlusion Culling, and the Profiler tools Work confidently with GameObjects, Rotations, and Transformations Understand specific gameplay features such as AI enemies, inventory systems, and level design In Detail Do you want to take the leap from being an everyday Unity developer to being a pro game developer? Then look no further! This book is your one stop solution to creating mesmerizing games with lifelike features and amazing gameplay. This book takes an in-depth focus on a practical project with Unity, building a first-person game with many features. You'll dive deep into the architecture of a Unity game, creating expansive worlds, interesting render effects, and other features to make your games special. You will create individual game components, use efficient animation techniques, and implement collision and physics effectively. Specifically, we'll explore optimal techniques for importing game assets, such as meshes and textures; tips and tricks for effective level design; how to animate and script NPCs; how to configure and deploy to mobile devices; how to prepare for VR development; and how to work with version control, and more. By the end of this book, you'll have developed sufficient competency in Unity development to produce fun games with confidence. Style and approach This book takes a step-by-step, practical tutorial approach. You will create an advanced level Unity game with an emphasis on leveraging the advanced Unity 5 features. You will make the most of the Unity 5 advanced features while you develop the game in its entirety.

Handbook of Research on Adapting Remote Learning Practices for Early Childhood and Elementary School Classrooms

Courtney-Dattola, Ashley.2021-12-17 Teaching is a demanding profession as there is constant fluctuation and evolution. A portion of teaching is the ability to be able to adapt to various environments, especially shifting from in-person instruction to online practices. Over the last few years, early childhood and elementary school classrooms have been thrust into hybrid and remote learning environments, and it is vital that educators and institutions adapt to new practices and create various outlets for teachers to be able to more adequately reach their young audience. The Handbook of Research on Adapting Remote Learning Practices for Early Childhood and Elementary School Classrooms is a critical resource to assist teachers as they develop online teaching practices and work to cater to young students so that they can receive the strongest benefits from their education. Through coverage of topics such as hybrid learning and parental involvement, paired with sample lesson plans, course formats, concepts, ideas, and additional components to further the body of research pertaining to remote learning, this book is tremendously beneficial to administrators, researchers, academicians, practitioners, instructors, and students.

Philosophical Papers Moritz Schlick.1980-03-31

College Physics: A Strategic Approach, eBook, Global Edition Randall D Knight,Brian Jones,Stuart Field.2023-06-16

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Physics Judah Landa.2000-01-29 This book provides material for a one-year high school physics course.

Master The NCERT for NEET Physics - Vol.1 2020 Arihant Experts.2019-06-04 While beginning, the preparation for Medical and Engineering Entrances, aspirants need to go beyond traditional NCERT textbooks to gain a complete grip over it to answer all questions correctly during the exam. The revised edition of MASTER THE NCERT, based on NCERT Classes XI and XII, once again brings a unique set of all kinds of Objective Type Questions for Physics, Chemistry, Biology and Mathematics. This book “Master the NCERT for NEET” Physics Vol-1, based on NCERT Class XI is a one-of-its-kind book providing 15 Chapters equipped with topic-wise objective questions, NCERT Exemplar Objective Questions, and a special separate format questions for NEET and other medical entrances. It also provides explanations for difficult questions and past exam questions for knowing the pattern. Based on a unique approach to master NCERT, it is a perfect study resource to build the foundation over NEET and other medical entrances.

Internet Accessible Remote Laboratories: Scalable E-Learning Tools for Engineering and Science Disciplines Azad, Abul K.M..2011-11-30 This book presents current developments in the multidisciplinary creation of Internet accessible remote laboratories, offering perspectives on teaching with online laboratories, pedagogical design, system architectures for

remote laboratories, future trends, and policy issues in the use of remote laboratories--Provided by publisher.

Introductory Physics with Algebra as a Second Language Stuart E. Loucks.2006-08-04 Get a better grade in Physics! Physics may be challenging, but with training and practice you can come out of your physics class with the grade you want! With Stuart Loucks' Introductory Physics with Algebra as a Second Language(TM): Mastering Problem-Solving, you'll get the practice and training you need to better understand fundamental principles, build confidence, and solve problems. Here's how you can get a better grade in physics: Understand the basic language of physics Introductory Physics with Algebra as a Second Language(TM) will help you make sense of your textbook and class notes so that you can use them more effectively. The text explains key topics in algebra-based physics in clear, easy-to-understand language. Break problems down into simple steps Introductory Physics with Algebra as a Second Language(TM) teaches you to recognize details that tell you how to begin new problems. You will learn how to effectively organize the information, decide on the correct equations, and ultimately solve the problem. Learn how to tackle unfamiliar physics problems Stuart Loucks coaches you in the fundamental concepts and approaches needed to set up and solve the major problem types. As you learn how to deal with these kinds of problems, you will be better equipped to tackle problems you have never seen before. Improve your problem-solving skills You'll learn timesaving problem-solving strategies that will help you focus your efforts and avoid potential pitfalls.

Mastering Python Scientific Computing Hemant Kumar Mehta.2015-09-23 A complete guide for Python programmers to master scientific computing using Python APIs and tools About This Book The basics of scientific computing to advanced concepts involving parallel and large scale computation are all covered. Most of the Python APIs and tools used in scientific computing are discussed in detail The concepts are discussed with suitable example programs Who This Book Is For If you are a Python programmer and want to get your hands on scientific computing, this book is for you. The book expects you to have had exposure to various concepts of Python programming. What You Will Learn Fundamentals and components of scientific computing Scientific computing data management Performing numerical computing using NumPy and SciPy Concepts and programming for symbolic computing using SymPy Using the plotting library matplotlib for data visualization Data analysis and visualization using Pandas, matplotlib, and IPython Performing parallel and high performance computing Real-life case studies and best practices of scientific computing In Detail In today's world, along with theoretical and experimental work, scientific computing has become an important part of scientific disciplines. Numerical calculations, simulations and computer modeling in this day and age form the vast majority of both experimental and theoretical papers. In the scientific method, replication and reproducibility are two important contributing factors. A complete and concrete scientific result should be reproducible and replicable. Python is suitable for scientific computing. A large community of users, plenty of help and documentation, a large collection of scientific libraries and environments, great performance, and good support makes Python a great choice for scientific computing. At present Python is among the top choices for

developing scientific workflow and the book targets existing Python developers to master this domain using Python. The main things to learn in the book are the concept of scientific workflow, managing scientific workflow data and performing computation on this data using Python. The book discusses NumPy, SciPy, SymPy, matplotlib, Pandas and IPython with several example programs. Style and approach This book follows a hands-on approach to explain the complex concepts related to scientific computing. It details various APIs using appropriate examples.

Physics Douglas C Giancoli.2013-07-17 For algebra-based introductory physics courses taken primarily by pre-med, agricultural, technology, and architectural students. This best-selling algebra-based physics text is known for its elegant writing, engaging biological applications, and exactness. Physics: Principles with Applications, 6e retains the careful exposition and precision of previous editions with many interesting new applications and carefully crafted new pedagogy. It was written to give students the basic concepts of physics in a manner that is accessible and clear.

College Physics for AP® Courses Irina Lyublinskaya,Douglas Ingram,Gregg Wolfe.2017-08-14 The College Physics for AP(R) Courses text is designed to engage students in their exploration of physics and help them apply these concepts to the Advanced Placement(R) test. This book is Learning List-approved for AP(R) Physics courses. The text and images in this book are grayscale.

Shape Understanding System – Knowledge Implementation and Learning Zbigniew Les,Magdalena Les.2012-07-27 This book presents the selected results of research on the further development of the shape understanding system (SUS) described in our previous book titled “Shape Understanding System: the First Steps Toward the Visual Thinking Machines”. This is the second book that presents the results of research in the area of thinking and understanding carried out by authors in the newly founded the Queen Jadwiga Research Institute of Understanding. In this book, the new term knowledge implementation is introduced to denote the new method of the meaningful learning in the context of machine understanding. SUS ability to understand is related to the different categories of objects such as the category of visual objects, the category of sensory objects and the category of text objects. In this book, new terms and concepts are introduced in order to describe and explain some issues connected with SUS development. These terms are explained by referring to the content of our books and other our works rather than to existing literature in related areas of research. This book raises many questions that are discussed in the area of cognitive science or philosophy of mind.

University Physics Samuel J. Ling,Jeff Sanny,William Moebs.2017-12-19 University Physics is designed for the two- or three-semester calculus-based physics course. The text has been developed to meet the scope and sequence of most university physics courses and provides a foundation for a career in mathematics, science, or engineering. The book provides an important opportunity for students to learn the core concepts of physics and understand how those concepts apply to their lives and to the world around them. Due to the comprehensive nature of the material, we are offering the book in three

volumes for flexibility and efficiency. Coverage and Scope Our University Physics textbook adheres to the scope and sequence of most two- and three-semester physics courses nationwide. We have worked to make physics interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. With this objective in mind, the content of this textbook has been developed and arranged to provide a logical progression from fundamental to more advanced concepts, building upon what students have already learned and emphasizing connections between topics and between theory and applications. The goal of each section is to enable students not just to recognize concepts, but to work with them in ways that will be useful in later courses and future careers. The organization and pedagogical features were developed and vetted with feedback from science educators dedicated to the project. VOLUME III Unit 1: Optics Chapter 1: The Nature of Light Chapter 2: Geometric Optics and Image Formation Chapter 3: Interference Chapter 4: Diffraction Unit 2: Modern Physics Chapter 5: Relativity Chapter 6: Photons and Matter Waves Chapter 7: Quantum Mechanics Chapter 8: Atomic Structure Chapter 9: Condensed Matter Physics Chapter 10: Nuclear Physics Chapter 11: Particle Physics and Cosmology

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motion sickness to ethical considerations, and discover emerging trends shaping the future of VR. Who This Book Is For: Mastering Virtual Reality is designed for creators, designers, developers, students, and anyone curious about the immersive world of virtual reality. Whether you're seeking to enhance your skills or embark on a journey toward becoming a VR expert, this book provides the insights and tools to navigate the complexities of virtual reality. © 2023 Cybellium Ltd. All rights reserved. www.cybellium.com

Mastering Physics for IIT-JEE Volume - I Rathi Rakesh.2012 Physics for IIT-JEE

General Chemistry I as a Second Language David R. Klein.2005-03-16 Get a better grade in General Chemistry! Even though General Chemistry may be challenging at times; with hard work and the right study tools, you can still get the grade you want. With David Klein's General Chemistry as a Second Language, you'll be able to better understand fundamental principles of chemistry, solve problems, and focus on what you need to know to succeed. Here's how you can get a better grade in General Chemistry: Understand the basic concepts: General Chemistry as a Second Language focuses on selected topics in General Chemistry to give you a solid foundation. By understanding these principles, you'll have a coherent framework that will help you better understand your course. Study more efficiently and effectively: General Chemistry as a Second Language provides time-saving study tips and problem-solving strategies that will help you succeed in the course. Improve your problem-solving skills: General Chemistry as a Second Language will help you develop the skills you need to solve a variety of problem types - even unfamiliar ones!

The Art of Insight in Science and Engineering Sanjoy Mahajan.2014-11-07 Tools to make hard problems easier to solve. In this book, Sanjoy Mahajan shows us that the way to master complexity is through insight rather than precision. Precision can overwhelm us with information, whereas insight connects seemingly disparate pieces of information into a simple picture. Unlike computers, humans depend on insight. Based on the author's fifteen years of teaching at MIT, Cambridge University, and Olin College, The Art of Insight in Science and Engineering shows us how to build insight and find understanding, giving readers tools to help them solve any problem in science and engineering. To master complexity, we can organize it or discard it. The Art of Insight in Science and Engineering first teaches the tools for organizing complexity, then distinguishes the two paths for discarding complexity: with and without loss of information. Questions and problems throughout the text help readers master and apply these groups of tools. Armed with this three-part toolchest, and without complicated mathematics, readers can estimate the flight range of birds and planes and the strength of chemical bonds, understand the physics of pianos and xylophones, and explain why skies are blue and sunsets are red. The Art of Insight in Science and Engineering will appear in print and online under a Creative Commons Noncommercial Share Alike license.

College Physics Paul Peter Urone,Roger Hinrichs.2018-01-05 This is part two of two for College Physics. This book covers chapters 18-34. Please note: The text and images in this textbook are grayscale and the format size has been reduced from

8.5 x 11 to 7.44 x 9.69. This introductory, algebra-based, two-semester college physics book is grounded with real-world examples, illustrations, and explanations to help students grasp key, fundamental physics concepts. College Physics includes learning objectives, concept questions, links to labs and simulations, and ample practice opportunities to solve traditional physics application problems.

Bulletin of the Atomic Scientists .1953-05 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world.

Year Book .1905

Buchanan's Journal of Man .1851

Mastering Physics for IIT-JEE Volume - II Rathi Rakesh. Physics for IIT-JEE

Starry Reckoning: Reference and Analysis in Mathematics and Cosmology Emily Rolfe Grosholz.2016-11-25 This book deals with a topic that has been largely neglected by philosophers of science to date: the ability to refer and analyze in tandem. On the basis of a set of philosophical case studies involving both problems in number theory and issues concerning time and cosmology from the era of Galileo, Newton and Leibniz up through the present day, the author argues that scientific knowledge is a combination of accurate reference and analytical interpretation. In order to think well, we must be able to refer successfully, so that we can show publicly and clearly what we are talking about. And we must be able to analyze well, that is, to discover productive and explanatory conditions of intelligibility for the things we are thinking about. The book's central claim is that the kinds of representations that make successful reference possible and those that make successful analysis possible are not the same, so that significant scientific and mathematical work typically proceeds by means of a heterogeneous discourse that juxtaposes and often superimposes a variety of kinds of representation, including formal and natural languages as well as more iconic modes. It demonstrates the virtues and necessity of heterogeneity in historically central reasoning, thus filling an important gap in the literature and fostering a new, timely discussion on the epistemology of science and mathematics.

Mastering Autodesk Maya 2014 Todd Palamar.2013-06-12 Hands-on intermediate-to-advanced coverage of the leading 3D software Autodesk Maya is the industry-leading 3D animation and effects software used in movies, visual effects, games, and other genres. If you already know the basics of Maya and are ready to elevate your skills, then this book is for you. Nearly 1,000 pages are packed with organized, professional, and valuable insight on the leading 3D application on the market, enabling you to unlock the software's more complex features. Ideal as both a tutorial and study guide for the Autodesk Maya exam, this Autodesk Official Press book gets you up to speed on Maya's latest features and expands your skills with advanced instruction on cloth, fur, and fluids. Features challenging tutorials and real-world scenarios from some of

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Year Book of the Society of Engineers, University of Minnesota .1897

Bulletin of the Atomic Scientists .1970-12 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world.

University Physics with Modern Physics, Global Edition Hugh D Young, Roger A Freedman.2019-08-21 For courses in calculus-based physics. Guided practice helps students develop into expert problem solvers The new 15th Edition of University Physics with Modern Physics, now in SI Units, draws on insights from several users to help students see patterns and make connections between problem types. Students learn to recognise when to use similar steps in solving the same problem type and develop an understanding for problem solving approaches, rather than simply plugging values into an equation. This edition addresses students' tendency to focus on the objects and situations posed in a problem, rather than recognising the underlying principle or the problem type. New Key Concept statements identify the main idea used in examples to help students recognise the underlying concepts and strategy. New Key Example Variation Problems within new Guided Practice sections group problems by type so students recognise when problems can be solved in similar ways, regardless of wording or numbers. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed.

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