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Black holes are famously compact objects where the paths of light are drastically bent by the curvature of space-time.

Theoretical Physicist Solves How Universe is Reflected near Black Hole

Min Wanli had a career path much coveted by those pursuing a career in computer science. A prodigy, Min was accepted to a top research university in China at the age of 14. Like many young, aspiring ...

Why former Alibaba scientist wants to back founders outside the Ivory Tower

A team of scientists has uncovered how heavy, motorized objects climb steep slopes—a newly discovered mechanism that also mimics how rock climbers navigate inclines.

Scientists find way to navigate a heavy uphill climb

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Pursuing a degree in physics can be the first step towards a variety of career opportunities. Here are four universities producing inventive thinkers through Physics.

In Europe, physics programmes with impact

When AI/ML came onto the scene in the supercomputing community, common wisdom was that it could do much to augment HPC applications but it would be not be ...

AI/ML Cuts into Traditional HPC, Plasma Physics

Rick Hess speaks with Michal Borkowski, co-founder of Brainly, about how the site crowdsources homework questions to its millions of users.

The company crowdsourcing homework help

In a proof-of-concept study last year, Tobias Heindel and colleagues in the Institute of Solid State Physics at the Technische Universität ... a German manufacturer of specialist nanotechnology ...

Optical cryostat proves a game-changer in quantum communication studies

The U.S. Department of Energy (DOE) today announced \$93 million in funding for 71 research projects that will spur new discoveries in High Energy Physics. The projects—housed at 50 colleges and ...

DOE Invests \$93 Million for New Discoveries in High Energy Physics

an associate professor of chemistry and physics at UC Berkeley. "Potassium and Sodium are only metallic in solid form, but they are not solid as additives in the injected solution," she told ...

No, Covid-19 Vaccines Won't Make You Magnetic. Here's Why

Fugro and its partners have demonstrated the technology and are now seeking to work with floating wind developers to trial the solution offshore ... and metocean monitoring systems, created a ...

Consortium develops floating wind mooring fatigue tracker

She realised that she absolutely enjoyed the process of transforming an idea into a real, tangible solution to improve lives. So with excellent passes in physics and mathematics, limited knowledge ...

Trecia Campbell-Sharpe - An engineering powerhouse

OneSky, a global UTM company developing airspace assessment, operations, and traffic management solutions, has announced it has been selected to participate in NASA's ...

OneSky Selected by NASA to Participate in Advanced Air Mobility National Campaign

Much else has been driven by researchers and scientists using powerful supercomputers to answer life-changing questions and make groundbreaking discoveries in life sciences, physics, chemistry ...

The rise of AI: Let the journey begin

Bureau Veritas is in a leading position to enable the commercialization of floating offshore wind, by providing solutions and guidance ... It addresses the complex physics involved with aero ...

Bureau Veritas launches Opera – a digital and independent tool to support design verification of floating units

Local company Software Design Solutions is helping to test system ... Slippery Rock University students working with assistant physics and engineering professor Sagar Bhandari to develop a ...

Murrysville student gets opportunity to work on atomic microscope project

"Each day, young scientists tirelessly seek solutions to humanity's greatest ... Scientists have made considerable progress toward understanding how diet and genetics drive varying responses ...

Blavatnik National Awards for Young Scientists announces the finalists of 2021

Dissatisfied with this compromise in their quest for a silent rig, YouTuber DIY Perks built their own 'breathing' thermal solution ... and a good understanding of both physics and engineering ...

The first magnet-cooled gaming PC chills Nvidia's RTX 3080 without fans

The High Energy Physics program's principal goal is to provide a deeper understanding of how our universe works at its most fundamental level. Particle accelerators and other tools developed in ...

This book compiles all of the test problems and solutions from the 1st through the 8th Asian Physics Olympiad. Test questions of every paper consist of two parts, a theory section and an experiment section, before which minutes of teams and results of each competition are introduced. It is a rather desirable reference book for both students and teachers of international competition training as well as middle school student contestants.

Atomic and Molecular Physics : Atomic Physics (1001--1122) - Molecular Physics (1123--1142) - Nuclear Physics : Basic Nuclear Properties (2001--2023) - Nuclear Binding Energy, Fission and Fusion (2024--2047) - The Deuteron and Nuclear forces (2048--2058) - Nuclear Models (2059--2075) - Nuclear

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Decays (2076--2107) - Nuclear Reactions (2108--2120) - Particle Physics : Interactions and Symmetries (3001--3037) - Weak and Electroweak Interactions, Grand Unification Theories (3038--3071) - Structure of Hadros and the Quark Model (3072--3090) - Experimental Methods and Miscellaneous Topics : Kinematics of High-Energy Particles (4001--4061) - Interactions between Radiation and Matter (4062--4085) - Detection Techniques and Experimental Methods (4086--4105) - Error Estimation and Statistics (4106--4118) - Particle Beams and Accelerators (4119--4131).

The third book in a series on heterogeneous materials, this volume offers integrated approaches to the measurement and modeling of materials using approaches from materials science, physics, mechanics, biology and other disciplines. The volume contains 289 chapters presenting original research on the connections among the nano-, micro-, and mesoscale mechanical properties and behaviors of many different types of engineered and natural heterogeneous materials. The book contains a wealth of never published multiscale data on materials loading behaviors, plasticity, creep, damage, fracture and failure. A separate section is devoted to the design and functionalization of materials using multiscale data and techniques

Readership: Undergraduates, graduate students, and research scientists in computational physics, engineering, physical science, applied physics, and fractals.

This is a masterly exposition and an encyclopedic presentation of the theory of hyperbolic conservation laws. It illustrates the essential role of continuum thermodynamics in providing motivation and direction for the development of the mathematical theory while also serving as the principal source of applications. The reader is expected to have a certain mathematical sophistication and to be familiar with (at least) the rudiments of analysis and the qualitative theory of partial differential equations, whereas prior exposure to continuum physics is not required. The target group of readers would consist of (a) experts in the mathematical theory of hyperbolic systems of conservation laws who wish to learn about the connection with classical physics; (b) specialists in continuum mechanics who may need analytical tools; (c) experts in numerical analysis who wish to learn the underlying mathematical theory; and (d) analysts and graduate students who seek introduction to the theory of hyperbolic systems of conservation laws. This new edition places increased emphasis on hyperbolic systems of balance laws with dissipative source, modeling relaxation phenomena. It also presents an account of recent developments on the Euler equations of compressible gas dynamics. Furthermore, the presentation of a number of topics in the previous edition has been revised, expanded and brought up to date, and has been enriched with new applications to elasticity and differential geometry. The bibliography, also expanded and updated, now comprises close to two thousand titles. From the reviews of the 3rd edition: "This is the third edition of the famous book by C.M. Dafermos. His masterly written book is, surely, the most complete exposition in the subject." Evgeniy Panov, Zentralblatt MATH "A monumental book encompassing all aspects of the mathematical theory of hyperbolic conservation laws, widely recognized as the "Bible" on the subject." Philippe G. LeFloch, Math. Reviews

Would you like to add the capabilities of the Non-Volatile Memory (NVM) as a storage element in your silicon integrated logic circuits, and as a trimming

sector in your high voltage driver and other silicon integrated analog circuits? Would you like to learn how to embed the NVM into your silicon integrated circuit products to improve their performance? This book is written to help you. It provides comprehensive instructions on fabricating the NVM using the same processes you are using to fabricate your logic integrated circuits. We at our eMemory company call this technology the embedded Logic NVM. Because embedded Logic NVM has simple fabrication processes, it has replaced the conventional NVM in many traditional and new applications, including LCD driver, LED driver, MEMS controller, touch panel controller, power management unit, ambient and motion sensor controller, micro controller unit (MCU), security ID setting tag, RFID, NFC, PC camera controller, keyboard controller, and mouse controller. The recent explosive growth of the Logic NVM indicates that it will soon dominate all NVM applications. The embedded Logic NVM was invented and has been implemented in users' applications by the 200+ employees of our eMemory company, who are also the authors and author-assistants of this book. This book covers the following Logic NVM products: One Time Programmable (OTP) memory, Multiple Times Programmable (MTP) memory, Flash memory, and Electrically Erasable Programmable Read Only Memory (EEPROM). The fundamentals of the NVM are described in this book, which include: the physics and operations of the memory transistors, the basic building block of the memory cells and the access circuits. All of these products have been used continuously by the industry worldwide. In-depth readers can attain expert proficiency in the implementation of the embedded Logic NVM technology in their products.

Reviews the fundamental concepts behind the theory and computation of electromagnetic fields The book is divided in two parts. The first part covers both fundamental theories (such as vector analysis, Maxwell's equations, boundary condition, and transmission line theory) and advanced topics (such as wave transformation, addition theorems, and fields in layered media) in order to benefit students at all levels. The second part of the book covers the major computational methods for numerical analysis of electromagnetic fields for engineering applications. These methods include the three fundamental approaches for numerical analysis of electromagnetic fields: the finite difference method (the finite difference time-domain method in particular), the finite element method, and the integral equation-based moment method. The second part also examines fast algorithms for solving integral equations and hybrid techniques that combine different numerical methods to seek more efficient solutions of complicated electromagnetic problems. Theory and Computation of Electromagnetic Fields, Second Edition: Provides the foundation necessary for graduate students to learn and understand more advanced topics Discusses electromagnetic analysis in rectangular, cylindrical and spherical coordinates Covers computational electromagnetics in both frequency and time domains Includes new and updated homework problems and examples Theory and Computation of Electromagnetic Fields, Second Edition is written for advanced undergraduate and graduate level electrical engineering students. This book can also be used as a reference for professional engineers interested in learning about analysis and computation skills.

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