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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

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 ...

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

Useful treatment of classical mechanics, electromagnetic theory, and relativity includes explanations of function theory, vectors, matrices, dyadics, tensors, partial differential equations, other advanced mathematical techniques. Nearly 200 problems with answers.

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

Chemical Solution Synthesis for Materials Design and Thin Film Device Applications presents current research on wet chemical techniques for thin-film based devices. Sections cover the quality of thin films, types of common films used in devices, various thermodynamic properties, thin film patterning, device configuration and applications. As a whole, these topics create a roadmap for developing new materials and incorporating the results in device fabrication. This book is suitable for graduate, undergraduate, doctoral students, and researchers looking for quick guidance on material synthesis and device fabrication through wet chemical routes. Provides the different wet chemical routes for materials synthesis, along with the most relevant thin film structured materials for device applications Discusses patterning and solution processing of inorganic thin films, along with solvent-based processing techniques Includes an overview of key processes and methods in thin film synthesis, processing and device fabrication, such as nucleation, lithography and solution processing

Although the technology of observation and prediction of atmospheric systems draws upon many common fields, until now the interrelatedness and interdisciplinary nature of these research fields have scarcely been discussed in one volume containing fundamental theories, numerical methods, and operational application results. This is a book to provide in-depth explorations of the numerical methods developed to better understand atmospheric systems, which are introduced in eight chapters. Chapter 1 presents an efficient algorithm for tropical cyclone center determination by using satellite imagery. Chapter 2 aims to identify atmospheric systems with a new polarization remote sensing method. Chapters 3-8 place emphasis on enhancing the performance of numerical models in the prediction of atmospheric systems that should be valuable for researchers and forecasters.

Electromigration in ULSI Interconnections provides a comprehensive description of the electromigration in integrated circuits. It is intended for both beginner and advanced readers on electromigration in ULSI interconnections. It begins with the basic knowledge required for a detailed study on electromigration, and examines the various interconnected systems and their evolution employed in integrated circuit technology. The subsequent chapters provide a detailed description of the physics of electromigration in both Al- and Cu-based Interconnections, in the form of theoretical, experimental and numerical modeling studies. The differences in the electromigration of Al- and Cu-based interconnections and the corresponding underlying physical mechanisms for these differences are explained. The test structures, testing methodology, failure analysis methodology and statistical analysis of the test data for the experimental studies on electromigration are presented in a concise and rigorous manner. Methods of numerical modeling for the interconnect electromigration and their applications to the understanding of electromigration physics are described in detail with the aspects of material properties, interconnection design, and interconnect process parameters on the electromigration performances of interconnects in ULSI further elaborated upon.

Finally, the extension of the studies to narrow interconnections is introduced, and future challenges on the study of electromigration are outlined and discussed.

Advances in Imaging and Electron Physics merges two long-running serials--Advances in Electronics and Electron Physics and Advances in Optical & Electron Microscopy. It features extended articles onthe physics of electron devices (especially semiconductor devices), particle optics at high and low energies, microlithography, image science and digital image processing, electromagnetic wave propagation, electron microscopy, and the computing methods used in all these domains.

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