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Coastal Hazards Related to Storm Surge - Rick Luettich 2018-03-13

This book is a printed edition of the Special Issue "Coastal Hazards Related to Storm Surge" that was published in JMSE

Near Field Communication (NFC) - Vedat Coskun 2011-12-28

This book provides the technical essentials, state-of-the-art knowledge, business ecosystem and standards of Near Field Communication (NFC) by NFC Lab - Istanbul research centre which conducts intense research on NFC technology. In this book, the authors present the contemporary research on all aspects of NFC, addressing related security aspects as well as information on various business models. In addition, the book provides comprehensive information a designer needs to design an NFC project, an analyzer needs to analyze requirements of a new NFC based system, and a programmer needs to implement an application.

Furthermore, the authors introduce the technical and administrative issues related to NFC technology, standards, and global stakeholders. It also offers comprehensive information as well as use case studies for each NFC operating mode to give the usage idea behind each operating mode thoroughly. Examples of NFC application development are provided using Java technology, and security considerations are discussed in detail. Key Features: Offers a complete understanding of the NFC technology, including standards, technical essentials, operating modes, application development with Java, security and privacy, business ecosystem analysis Provides analysis, design as well as development guidance for professionals from administrative and technical perspectives Discusses methods, techniques and modelling support including UML are demonstrated with real cases Contains case studies such as payment, ticketing, social networking and remote shopping This book will be an invaluable guide for business and ecosystem analysts, project managers, mobile commerce consultants, system and application developers, mobile developers and practitioners. It will also be of interest to researchers, software engineers, computer scientists, information technology specialists including students and graduates.

Cambridge Checkpoint Science Coursebook 8 - Mary Jones 2012-09-13

Written by well-respected authors, the Cambridge Checkpoint Science suite provides a comprehensive, structured resource which covers the full Cambridge Secondary 1 framework and seamlessly progresses into the next stage. This engaging course supports teaching of the Science framework both theoretically and practically, with full coverage of the Scientific Enquiry framework integrated throughout the series. This Coursebook for Stage 8 gives a thorough introduction to the concepts, and offers a wealth of ideas for hands-on activities to make the subject matter come to life.

Aamc the Official Guide to the McAt(r) Exam, Fifth Edition - Aamc Association of American Medical Col 2017-11

The Official Guide to the MCAT(R) Exam, the only comprehensive overview about the MCAT exam, includes 120 practice questions and solutions (30 questions in each of the four sections of the MCAT exam) written by the developers of the MCAT exam at the AAMC Everything you need to know about the exam sections Tips on how to prepare for the exam Details on how the exam is scored, information on holistic admissions, and more.

SAT Power Vocab - Princeton Review 2013-10-22

THE PRINCETON REVIEW GETS RESULTS! Ace the SAT verbal sections with 1,600+ words you need to know to excel. This eBook edition has been optimized for onscreen viewing with cross linked quiz questions, answers, and explanations. The Princeton Review's SAT Power Vocab brings you useful definitions and study tips for more than 1,600 frequently-used SAT words. It also includes strategies for memorizing the words and answering questions on the test, as well as a Final Exam section that tests your ability to apply your vocabulary knowledge to SAT questions. Inside the Book: All the Practice & Strategies You Need • More than 1,600 frequently-appearing vocabulary words from the SAT •

170 quizzes throughout the book to help you learn how to apply this knowledge • A Final Exam section with drills to test your grasp of vocabulary knowledge on practice SAT questions • An SAT "Hit Parade" of words most commonly tested on the actual exam

Firm Innovation and Productivity in Latin America and the Caribbean - Inter-American Development Bank 2016-07-01

This volume uses the study of firm dynamics to investigate the factors preventing faster productivity growth in Latin America and the Caribbean, pushing past the limits of traditional macroeconomic analyses. Each chapter is dedicated to an examination of a different factor affecting firm productivity - innovation, ICT usage, on-the-job-training, firm age, access to credit, and international linkages - highlighting the differences in firm characteristics, behaviors, and strategies. By showcasing this remarkable heterogeneity, this collection challenges regional policymakers to look beyond one-size-fits-all solutions and create balanced policy mixes tailored to distinct firm needs. This book is open access under a CC BY-NC-ND 3.0 IGO license.

Water Lifting Devices - Peter L. Fraenkel 2006

Efficient and effective irrigation of the land can have a dramatic effect on the agricultural output and the economic well-being of a community. At the heart of effective irrigation lies the problem of lifting or pumping water, and this handbook surveys the water-lifting technologies that are available and appropriate for smallholdings. It is a detailed and practical review of the options, especially for irrigation but also for other purposes, and the costs and general suitability of the different technologies are examined with the aim of enabling farmers and policymakers to make informed choices. This is an updated and expanded new edition of a book formerly called 'Water Pumping Devices'. *Principia Mathematica* - Alfred North Whitehead 1927

The Principia Mathematica has long been recognised as one of the intellectual landmarks of the century.

Triboelectric Nanogenerators - Zhong Lin Wang 2016-08-17

This book introduces an innovative and high-efficiency technology for mechanical energy harvesting. The book covers the history and development of triboelectric nanogenerators, basic structures, working principles, performance characterization, and potential applications. It is divided into three parts: Part A illustrates the fundamental working modes of triboelectric nanogenerators with their prototype structures and theoretical analysis; Part B and Part C introduce two categories of applications, namely self-powered systems and self-powered active sensors. The book will be an ideal guide to scientists and engineers beginning to study triboelectric nanogenerators or wishing to deepen their knowledge of the field. Readers will be able to place the technical details about this technology in context, and acquire the necessary skills to reproduce the experimental setups for fabrication and measurement.

Spanish Short Stories For Beginners (Vol 1) - Mobile Library 2018-05-20

¡Hola! Hello! Did you understand this first Spanish word? Yes, you did! Why? Because it was presented to you using a new technique that is making learning languages easier than ever - the Bilingual Reading. We created this book using this technique so that you can learn Spanish in a fast and fun way and whenever you want. How does this work? It is simple: Bilingual Reading works by reading two versions of the same book or text at once. One version will be on the language you want to learn (in this case we will help you to learn Spanish) and the other version will be in your native language or some other language you are comfortable with - here we will use English. Using this method, you will quickly start discovering the meaning of the words in Spanish and accumulating vocabulary that will soon allow you to read texts that are more complex without having to spend hours and hours looking for every word meaning on a dictionary and trying hard to memorize it. In order to make it easier for you to learn Spanish in a fun way, we gathered in a word a very special group of 12 Spanish short stories. These 12 Spanish

short stories for beginners were written using straightforward grammar that is comprehensible for beginners and that will help you rapidly gain more Spanish vocabulary and comprehension. Using Spanish English parallel text, this book will increase your bilingual reading comprehension skills and maximize the time you invest in reading. The book is organized as a Spanish learning book: you can start by reading each paragraph of each story in the two languages (in Spanish English parallel text), then move to read the full story in each language, rereading to consolidate the Spanish fundamentals whenever is necessary. This way you will feel the progress of Spanish language learning when moving from story to story and see your Spanish vocabulary grow as your bilingual reading comprehension increases - allows you to learn Spanish easily and more than that, you can learn Spanish in a fast and fun way. You can even dedicate it a few moments every day so you can even learn Spanish in 10 minutes a day if you want! Let's Start? The Volume 2 is also available! Get it also to learn even more words in Spanish, with 10 new short stories!

Covariant Loop Quantum Gravity - Carlo Rovelli 2015

A comprehensible introduction to the most fascinating research in theoretical physics: advanced quantum gravity. Ideal for researchers and graduate students.

Physical World (Teacher Guide) - Debbie Lawrence 2018-07-19

The God's Design Physical World Teacher Guide reveals the wonders of God's creation through the study of physics and the mechanisms of heat, machines, and technology. Each lesson contains at least one hands-on activity to reinforce the concepts being taught and a "challenge" section with extra information and activities designed especially for older students. In addition to the lessons, special features in each book include biographical information on interesting people as well as fun facts to make the subject more engaging. Teaches children an understanding that God is our Creator, and the Bible can be trusted. Designed to build critical thinking skills and flexible enough to work with all learning styles, the lessons require minimal teacher preparation, are multi-level for 3rd-5th and 6th-8th grades, as well as being fun and easy-to-use. The course includes a helpful daily schedule, as well as worksheets, quizzes, and tests. The information contains tips on how to teach science, properly contrasting creation vs. evolution, and integrating a biblical worldview.

Decision Mathematics - 1990

Nanowire Electronics - Guozhen Shen 2018-11-23

This book gives a comprehensive overview of recent advances in developing nanowires for building various kinds of electronic devices. Specifically the applications of nanowires in detectors, sensors, circuits, energy storage and conversion, etc., are reviewed in detail by the experts in this field. Growth methods of different kinds of nanowires are also covered when discussing the electronic applications. Through discussing these cutting edge researches, the future directions of nanowire electronics are identified.

The Theory of Political Economy - William Stanley Jevons 1965

Quantum Well Infrared Photodetectors - Harald Schneider 2006-10-18

Addressed to both students as a learning text and scientists/engineers as a reference, this book discusses the physics and applications of quantum-well infrared photodetectors (QWIPs). It is assumed that the reader has a basic background in quantum mechanics, solid-state physics, and semiconductor devices. To make this book as widely accessible as possible, the treatment and presentation of the materials is simple and straightforward. The topics for the book were chosen by the following criteria: they must be well-established and understood; and they should have been, or potentially will be, used in practical applications. The monograph discusses most aspects relevant for the field but omits, at the same time, detailed discussions of specialized topics such as the valence-band quantum wells.

Cambridge Checkpoint Science Coursebook 7 - Mary Jones 2012-03-29

Written by well-respected authors, the Cambridge Checkpoint Science suite provides a comprehensive, structured resource which covers the full Cambridge Secondary 1 framework and seamlessly progresses into the next stage. This engaging course supports teaching of the Science framework both theoretically and practically, with full coverage of the Scientific Enquiry framework integrated throughout the series. This Coursebook for Stage 7 gives a thorough introduction to the concepts, and offers a wealth of ideas for hands-on activities to make the subject matter come to life.

Frost and Scaling Resistance of High-strength Concrete - Robert C.A. Pinto 2001

Communication, Control, and Computer Access for Disabled and Elderly Individuals - Dale Bengston 1987

"Grant G008300045"--Resourcebook 3, doc. resume.

Protein Self-Assembly - Jennifer J. McManus 2020-08-08

This volume explores experimental and computational approaches to measuring the most widely studied protein assemblies, including condensed liquid phases, aggregates, and crystals. The chapters in this book are organized into three parts: Part One looks at the techniques used to measure protein-protein interactions and equilibrium protein phases in dilute and concentrated protein solutions; Part Two describes methods to measure kinetics of aggregation and to characterize the assembled state; and Part Three details several different computational approaches that are currently used to help researchers understand protein self-assembly. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Thorough and cutting-edge, Protein Self-Assembly: Methods and Protocols is a valuable resource for researchers who are interested in learning more about this developing field.

Ordinary Level Physics - A. F. Abbott 1977

Cambridge O Level Physics with CD-ROM - David Sang 2012-07-05

Cambridge O Level Physics matches the requirements of the Cambridge O Level Physics syllabus. Cambridge O Level Physics matches the requirements of the Cambridge O Level Physics syllabus. All concepts covered in the syllabus are clearly explained in the text, with illustrations and photographs to show how physics helps us to understand the world around us. The accompanying CD-ROM contains a complete answer key, teacher's notes and activity sheets linked to each chapter.

Electrode Materials for Energy Storage and Conversion - Mesfin A. Kebede 2021-11-17

This book provides a comprehensive overview of the latest developments and materials used in electrochemical energy storage and conversion devices, including lithium-ion batteries, sodium-ion batteries, zinc-ion batteries, supercapacitors and conversion materials for solar and fuel cells. Chapters introduce the technologies behind each material, in addition to the fundamental principles of the devices, and their wider impact and contribution to the field. This book will be an ideal reference for researchers and individuals working in industries based on energy storage and conversion technologies across physics, chemistry and engineering. FEATURES Edited by established authorities, with chapter contributions from subject-area specialists Provides a comprehensive review of the field Up to date with the latest developments and research Editors Dr. Mesfin A. Kebede obtained his PhD in Metallurgical Engineering from Inha University, South Korea. He is now a principal research scientist at Energy Centre of Council for Scientific and Industrial Research (CSIR), South Africa. He was previously an assistant professor in the Department of Applied Physics and Materials Science at Hawassa University, Ethiopia. His extensive research experience covers the use of electrode materials for energy storage and energy conversion. Prof. Fabian I. Ezema is a professor at the University of Nigeria, Nsukka. He obtained his PhD in Physics and Astronomy from University of Nigeria, Nsukka. His research focuses on several areas of materials science with an emphasis on energy applications, specifically electrode materials for energy conversion and storage.

Climate Change and Health - Walter Leal Filho 2016-03-24

A major objective of this volume is to create and share knowledge about the socio-economic, political and cultural dimensions of climate change. The authors analyze the effects of climate change on the social and environmental determinants of the health and well-being of communities (i.e. poverty, clean air, safe drinking water, food supplies) and on extreme events such as floods and hurricanes. The book covers topics such as the social and political dimensions of the ebola response, inequalities in urban migrant communities, as well as water-related health effects of climate change. The contributors recommend political and social-cultural strategies for mitigate, adapt and prevent the impacts of climate change to human and environmental health. The book will be of interest to scholars and practitioners interested in new methods and tools to reduce risks and to increase health resilience to climate change.

Hazards in the Chemical Laboratory - Geoffrey Dale Muir 1974

Endohedral Metallofullerenes - Hisanori Shinohara 2015-09-21

Endohedral Metallofullerenes: Fullerenes with Metal Inside presents a comprehensive survey of the current state of knowledge on endohedral metallofullerenes, from preparation to functionalization, reactivity and applications. Following a brief historical overview, the book describes methods for synthesis, extraction, separation and purification, and provides an insight into the molecular and crystal structures. Subsequent chapters discuss various categories of endohedral metallofullerenes based on the encapsulated species, including carbides, nitrides, sulphides, oxides, non-metal and non-IPR endohedral metallofullerenes, followed by scanning tunneling microscopy studies and the examination of electronic, vibrational, magnetic and optical properties. The book concludes with chapters addressing the chemical functionalization of endohedral metallofullerenes, and applications ranging from solar cells to biomedicine.

Mosby's Respiratory Care Equipment - J. M. Cairo 2009-05

Stay ahead of the curve with the most clinically relevant equipment text on the market, now updated with the latest equipment and most in-depth information. You'll appreciate the thorough and systematic coverage of equipment used by respiratory therapists in all areas of practice including neonates and pediatrics, cardiovascular diagnostics, and the growing field of sleep medicine. Chapters combine theory with the latest advances in new devices and techniques, computer-assisted technologies, pharmacological agents, and clinical practice guidelines. Unlike other texts, Mosby's Respiratory Care Equipment explains the mechanics of the equipment while maintaining a focus on the clinical applications. Instead of just reading a technical description of ventilators you'll learn how to select modes, set parameters, monitor the equipment, and respond to alarms. This how to approach prepares you to work with the entire spectrum of equipment.

Room Temperature Tunable Color Center Lasers - T. T. Basiev 1994**Plasma Catalysis** - Annemie Bogaerts 2019-04-02

Plasma catalysis is gaining increasing interest for various gas conversion applications, such as CO₂ conversion into value-added chemicals and fuels, N₂ fixation for the synthesis of NH₃ or NO_x, methane conversion into higher hydrocarbons or oxygenates. It is also widely used for air pollution control (e.g., VOC remediation). Plasma catalysis allows thermodynamically difficult reactions to proceed at ambient pressure and temperature, due to activation of the gas molecules by energetic electrons created in the plasma. However, plasma is very reactive but not selective, and thus a catalyst is needed to improve the selectivity. In spite of the growing interest in plasma catalysis, the underlying mechanisms of the (possible) synergy between plasma and catalyst are not yet fully understood. Indeed, plasma catalysis is quite complicated, as the plasma will affect the catalyst and vice versa. Moreover, due to the reactive plasma environment, the most suitable catalysts will probably be different from thermal catalysts. More research is needed to better understand the plasma-catalyst interactions, in order to further improve the applications.

Wettability and Interfacial Phenomena - Rita Khanna 2019-05-22

Wettability at the solid/liquid interface, its dynamics, tunability, the influence of operating parameters, surface and interfacial phenomena play an increasingly significant role in a wide variety of applications, for example, material processing, nanotechnology, oil recovery, oil spills, chemical leaching, water management, and disease transmission. Although a mature field, it is experiencing dramatic developments on several fronts with emerging applications in new fields. This book presents a collection of eight chapters on nanoscale wetting phenomena, oil extraction from reservoir rocks, the role of coatings, particle morphology, surface roughness and viscosity in metal processing, and practical applications of superhydrophobic behaviour in cell culturing, isolation, anti-icing, anti-reflective and anti-corrosion coatings in the transportation and optical devices fields.

PISA 2015 Results - 2017-06-15

Each volume developed under the direction of Andreas Schleicher, Yuri Belfali and others.

Optical Coherence Tomography and Its Non-medical Applications - Michael Wang 2020-05-27

Optical coherence tomography (OCT) is a promising non-invasive non-contact 3D imaging technique that can be used to evaluate and inspect material surfaces, multilayer polymer films, fiber coils, and coatings. OCT can be used for the examination of cultural heritage objects and 3D imaging of microstructures. With subsurface 3D fingerprint imaging capability, OCT could be a valuable tool for enhancing security in

biometric applications. OCT can also be used for the evaluation of fastener flushness for improving aerodynamic performance of high-speed aircraft. More and more OCT non-medical applications are emerging. In this book, we present some recent advancements in OCT technology and non-medical applications.

Optoelectronics - Sergei Pyshkin 2015-10-07

Optoelectronics Materials and Devices follows the Optoelectronics Books II and III published in 2011 and 2013, as part of the InTech collection of international works on optoelectronics. Accordingly, as with the first two books of the collection, this book covers recent achievements by specialists around the world. The growing number of countries participating in this endeavor as well as joint participation of the US and Moldova scientists in this edition testifies to the unifying effect of science. An interested reader will find in the book the description of properties and applications employing organic and inorganic materials, as well as the methods of fabrication and analysis of operation and regions of application of modern optoelectronic devices.

Using Econometrics - A. H. Studenmund 1997

"A. H. Studenmund's practical introduction to econometrics combines single-equation linear regression analysis with real-world examples and exercises. Using Econometrics: A Practical Guide provides a thorough introduction to econometrics that avoids complex matrix algebra and calculus, making it the ideal text for the beginning econometrics student, the regression user looking for a refresher or the experienced practitioner seeking a convenient reference."--BOOK JACKET.

120 Years of American Education - Thomas D. Snyder 1993**Cambridge O Level Chemistry** - Bryan Earl 2021-07-23

This title is endorsed by Cambridge Assessment International Education. Written by renowned expert authors, our updated resources enable the learner to effectively navigate through the content of the revised Cambridge Chemistry (5070) syllabus for examination from 2023. - Develop strong practical skills: practical skills features provide guidance on key experiments, interpreting experimental data, and evaluating results; supported by practice questions for preparation for practical exams or alternatives. - Build mathematical skills: worked examples demonstrate the key mathematical skills in scientific contexts; supported by follow-up questions to put these skills into practice. - Consolidate skills and check understanding: self-assessment questions, exam-style questions and checklists are embedded throughout the book, alongside key definitions of technical terms and a Glossary. - Navigate the syllabus confidently: content flagged clearly with introductions to each topic outlining the learning objectives and context. - Deepen and enhance scientific knowledge: going further boxes throughout encourage students to take learning to the next level.

Mediterranean Climate Variability - P. Lionello 2006-08-22

This multi-authored book provides an updated description of climate variability in the Mediterranean basin, focusing on decadal and centennial time scales and on the results available on the impact of future emission scenarios at regional scale. The authors describe both local physical processes responsible for these variability - such as changes in the surface properties and land use- and global processes - such as changes in the large scale atmospheric circulation associated to global warming, NAO, tropical monsoon and ENSO. Regional climate change issues are also addressed. Mediterranean Climate Variability aims to review the research on this region and to provide at the same time both an introduction and a reference for researchers. It covers topics typical of Climatology, Climate history, Meteorology, Oceanography, Environmental Science but the information here provided would also be useful for research in agriculture, social and economic studies. It is addressed to scientists and students interested in the Mediterranean climate and environment. Some topics have interesting connections to nearby regions: Northern Atlantic, West Africa, central and Eastern Europe. Each chapter will contain a summary meant to provide information to policy makers, researchers from other fields, and in general to a wide audience without a technical expertise on climate. * Provides an updated analysis of the Mediterranean climate features and guidelines for future research * Considers both oceanographic and atmospheric aspects * Analyzes the Mediterranean climate in a global perspective

Preparing for Life in a Digital Age - Julian Fraillon 2014-12-13

Ability to use information and communication technologies (ICT) is an imperative for effective participation in today's digital age. Schools worldwide are responding to the need to provide young people with that ability. But how effective are they in this regard? The IEA International

Computer and Information Literacy Study (ICILS) responded to this question by studying the extent to which young people have developed computer and information literacy (CIL), which is defined as the ability to use computers to investigate, create and communicate with others at home, school, the workplace and in society. The study was conducted under the auspices of the International Association for the Evaluation of Educational Achievement (IEA) and builds on a series of earlier IEA studies focusing on ICT in education. Data were gathered from almost 60,000 Grade 8 students in more than 3,300 schools from 21 education systems. This information was augmented by data from almost 35,000 teachers in those schools and by contextual data collected from school ICT-coordinators, school principals and the ICILS national research centers. The IEA ICILS team systematically investigated differences among the participating countries in students' CIL outcomes, how participating countries were providing CIL-related education and how confident teachers were in using ICT in their pedagogical practice. The team also explored differences within and across countries with respect to relationships between CIL education outcomes and student characteristics and school contexts. In general, the study findings presented in this international report challenge the notion of young people as "digital natives" with a self-developed capacity to use digital technology. The large variations in CIL proficiency within and across the ICILS countries suggest it is naive to expect young people to develop CIL in the absence of coherent learning programs. Findings also indicate that system- and school-level planning needs to focus on increasing teacher expertise in using ICT for pedagogical purposes if such programs are to have the desired effect. The report furthermore presents an empirically derived scale and description of CIL learning that educational stakeholders can reference when deliberating about CIL education and use to monitor change in CIL over time.

Brownian Motion - Peter Mörters 2010-03-25

This eagerly awaited textbook covers everything the graduate student in probability wants to know about Brownian motion, as well as the latest research in the area. Starting with the construction of Brownian motion, the book then proceeds to sample path properties like continuity and nowhere differentiability. Notions of fractal dimension are introduced early and are used throughout the book to describe fine properties of Brownian paths. The relation of Brownian motion and random walk is explored from several viewpoints, including a development of the theory of Brownian local times from random walk embeddings. Stochastic integration is introduced as a tool and an accessible treatment of the potential theory of Brownian motion clears the path for an extensive treatment of intersections of Brownian paths. An investigation of exceptional points on the Brownian path and an appendix on SLE processes, by Oded Schramm and Wendelin Werner, lead directly to recent research themes.

Advances in Infrared Photodetectors - 2011-05-03

Semiconductors and Semimetals has distinguished itself through the careful selection of well-known authors, editors, and contributors. Originally widely known as the "Willardson and Beer" Series, it has succeeded in publishing numerous landmark volumes and chapters. The series publishes timely, highly relevant volumes intended for long-term impact and reflecting the truly interdisciplinary nature of the field. The volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists, chemists, materials scientists, and device engineers in academia, scientific laboratories and modern industry. Written and edited by internationally renowned experts Relevant to a wide readership: physicists, chemists, materials scientists, and device engineers in academia, scientific laboratories and modern industry