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KEY=2014 - LAMBERT RHYS

NEW GENERAL MATHEMATICS FOR JUNIOR SECONDARY SCHOOLS

Longman This well-established series, the most popular in Nigeria, has been fully revised to reflect recent developments in mathematics education at junior secondary level and the views of the many users of the books. It has especially been revised to fully cover the requirements of the new NERDC Universal Basic Education Curriculum.

DECISION SCIENCE FOR FUTURE EARTH

THEORY AND PRACTICE

Springer Nature This open access book provides a theoretical framework and case studies on decision science for regional sustainability by integrating the natural and social sciences. The cases discussed include solution-oriented transdisciplinary studies on the environment, disasters, health, governance and human cooperation. Based on these case studies and comprehensive reviews of relevant works, including lessons learned from past failures for predictable surprises and successes in adaptive co-management, the book provides the reader with new perspectives on how we can co-design collaborative projects with various conflicts of interest and how we can transform our society for a sustainable future. The book makes a valuable contribution to the global research initiative Future Earth, promoting transdisciplinary studies to bridge the gap between science and society in knowledge generation processes and supporting efforts to achieve the UN's Sustainable Development Goals (SDGs). Compared to other publications on transdisciplinary studies, this book is unique in that evolutionary biology is used as an integrator for various areas related to human decision-making, and approaches social changes as processes of adaptive learning and evolution. Given its scope, the book is highly recommended to all readers seeking an integrated overview of human decision-making in the context of social transformation.

WATER RESOURCE SYSTEMS PLANNING AND MANAGEMENT

AN INTRODUCTION TO METHODS, MODELS, AND APPLICATIONS

Springer This book is open access under a CC BY-NC 4.0 license. This revised, updated textbook presents a systems approach to the planning, management, and operation of water resources infrastructure in the environment. Previously published in 2005 by UNESCO and Deltares (Delft Hydraulics at the time), this new edition, written again with contributions from Jery R. Stedinger, Jozef P. M. Dijkman, and Monique T. Villars, is aimed equally at students and professionals. It introduces readers to the concept of viewing issues involving water resources as a system of multiple interacting components and scales. It offers guidelines for initiating and carrying out water resource system planning and management projects. It introduces alternative optimization, simulation, and statistical methods useful for project identification, design, siting, operation and evaluation and for studying post-planning issues. The authors cover both basin-wide and urban water issues and present ways of identifying and evaluating alternatives for addressing multiple-purpose and multi-objective water quantity and quality management challenges. Reinforced with cases studies, exercises, and media supplements throughout, the text is ideal for upper-level undergraduate and graduate courses in water resource planning and management as well as for practicing planners and engineers in the field.

CONCRETE INNOVATIONS IN MATERIALS, DESIGN AND STRUCTURES

PROCEEDINGS OF THE FIB SYMPOSIUM 2019 HELD IN KRAKÓW, POLAND 27-29 MAY 2019

FIB - Féd. Int. du Béton This Proceedings contains the papers of the fib Symposium "CONCRETE Innovations in Materials, Design and Structures", which was held in May 2019 in Kraków, Poland. This annual symposium was co-organised by the Cracow University of Technology. The topics covered include Analysis and Design, Sustainability, Durability, Structures, Materials, and Prefabrication. The fib, Fédération internationale du béton, is a not-for-profit association formed by 45 national member groups and approximately 1000 corporate and individual members. The fib's mission is to develop at an international level the study of scientific and practical matters capable of advancing the technical, economic, aesthetic and environmental performance of concrete construction. The fib, was formed in 1998 by the merger of the Euro-International Committee for Concrete (the CEB) and the International Federation for Prestressing (the FIP). These predecessor organizations existed independently since 1953 and 1952, respectively.

CITY OF HEAVENLY FIRE

Simon and Schuster "Darkness has descended on the Shadowhunter world. Chaos and destruction overwhelm the Nephilim as Clary, Jace, Simon, and their friends band together to fight the greatest evil they have ever faced: Clary's own brother. Nothing in this world can defeat Sebastian--but if they journey to the realm of demons, they just might have a chance.."

EFFECTS OF INFORMATION CAPITALISM AND GLOBALIZATION ON TEACHING AND LEARNING

IGI Global "This book examines issues concerning emerging multimedia technologies and their challenges and solutions in teaching and learning, exploring the global society's effect on learning"--Provided by publisher.

CORAL REEF STUDIES OF JAPAN

Springer This book comprehensively introduces recent important studies on coral reefs from various research fields including biology, ecology, chemistry, the earth sciences, and conservation studies. Coral reef is one of the important ecosystems characterized by high biodiversity and the beauty. Coral reefs around Japan are located at the northern limit, composed by mainly fringing reefs along archipelago, and easily impacted by human activities. Thus, coral reef studies around Japan have provided important knowledge on basic sciences and conservation studies regarding coral reef ecosystem. This book would contribute to systematic understanding of vulnerable coral reef ecosystems due to human activities in the Indo-Pacific and Caribbean regions. The conservation efforts provide good reference to graduate and undergraduate students, and researchers in marine sciences, as well as those who are involved in coral reef studies.

SCIENCE OF SOCIETAL SAFETY

LIVING AT TIMES OF RISKS AND DISASTERS

Springer This open access book covers comprehensive but fundamental principles and concepts of disaster and accident prevention and mitigation, countermeasures, and recovery from disasters or accidents including treatment and care of the victims. Safety and security problems in our society involve not only engineering but also social, legal, economic, cultural, and psychological issues. The enhancement needed for societal safety includes comprehensive activities of all aspects from precaution to recovery, not only of people but also of governments. In this context, the authors, members of the Faculty of Societal Safety Science, Kansai University, conducted many discussions and concluded that the major strategy is consistent independently of the type and magnitude of disaster or accident, being also the principle of the foundation of our faculty. The topics treated in this book are rather widely distributed but are well organized sequentially to provide a clear understanding of the principles of societal safety. In the first part the fundamental concepts of safety are discussed. The second part deals with risks in the societal and natural environment. Then follows, in the third part, a description of the quantitative estimation of risk and its assessment and management. The fourth part is devoted to disaster prevention, mitigation, and recovery systems. The final, fifth part presents a future perspective of societal safety science. Thorough reading of this introductory volume of societal safety science provides a clear image of the issues. This is largely because the Japanese have suffered often from natural disasters and not only have gained much valuable information about disasters but also have accumulated a store of experience. We are still in the process of reconstruction from the Great East Japan earthquake and the Fukushima nuclear power plant accident. This book is especially valuable therefore in studying the safety and security of people and their societies.

TOOLS IN FLUVIAL GEOMORPHOLOGY

John Wiley & Sons Fluvial Geomorphology studies the biophysical processes acting in rivers, and the sediment patterns and landforms resulting from them. It is a discipline of synthesis, with roots in

geology, geography, and river engineering, and with strong interactions with allied fields such as ecology, engineering and landscape architecture. This book comprehensively reviews tools used in fluvial geomorphology, at a level suitable to guide the selection of research methods for a given question. Presenting an integrated approach to the interdisciplinary nature of the subject, it provides guidance for researchers and professionals on the tools available to answer questions on river restoration and management. Thoroughly updated since the first edition in 2003 by experts in their subfields, the book presents state-of-the-art tools that have revolutionized fluvial geomorphology in recent decades, such as physical and numerical modelling, remote sensing and GIS, new field techniques, advances in dating, tracking and sourcing, statistical approaches as well as more traditional methods such as the systems framework, stratigraphic analysis, form and flow characterisation and historical analysis. This book: Covers five main types of geomorphological questions and their associated tools: historical framework; spatial framework; chemical, physical and biological methods; analysis of processes and forms; and future understanding framework. Provides guidance on advantages and limitations of different tools for different applications, data sources, equipment and supplies needed, and case studies illustrating their application in an integrated perspective. It is an essential resource for researchers and professional geomorphologists, hydrologists, geologists, engineers, planners, and ecologists concerned with river management, conservation and restoration. It is a useful supplementary textbook for upper level undergraduate and graduate courses in Geography, Geology, Environmental Science, Civil and Environmental Engineering, and interdisciplinary courses in river management and restoration.

INDIA-JAPAN-ASEAN TRIANGULARITY

EMERGENCE OF A POSSIBLE INDO-PACIFIC AXIS?

Taylor & Francis This book focuses on the scope, potential and future of the India-Japan-Association of Southeast Asian Nations (ASEAN) trilateral. Through this book, contributors examine the strategic and global partnership between India and Japan and the collaboration with ASEAN. Analysing contemporary strategic issues in the Indo-Pacific, the book takes up the complex link between security and economics. It offers a thorough understanding on how the major Asian powers, India and Japan, cooperate and coordinate with the ASEAN. It delves into few critical questions: Is there a scope for India-Japan-ASEAN triangularity in the Indo-Pacific? Can a formal or institutional cooperation be forged between these three actors? What specific cooperation could India and Japan forge with ASEAN as an institution? To what extent can each ASEAN member independently become a partner with India and Japan? A novel assessment of the post-pandemic economic and political balancing and restructuring, this book will be of interest to Asian politics, international relations, strategic studies, regional organizations in Asia and think tanks specializing in foreign policy, security studies, international trade and economics.

SMART TECHNOLOGIES FOR ENERGY, ENVIRONMENT AND SUSTAINABLE DEVELOPMENT

SELECT PROCEEDINGS OF ICSTEESD 2018

Springer This book comprises select proceedings of the International Conference on Smart Technologies for Energy, Environment, and Sustainable Development (ICSTEESD 2018). The chapters are broadly divided into three focus areas, viz. energy, environment, and sustainable development, and discusses the relevance and applications of smart technologies in these fields. A wide variety of topics such as renewable energy, energy conservation and management, energy policy and planning, environmental management, marine environment, green building, smart cities, smart transportation are covered in this book. Researchers and professionals from varied engineering backgrounds contribute chapters with an aim to provide economically viable solutions to sustainable development challenges. The book will prove useful for academics, professionals, and policy makers interested in sustainable development.

CHALLENGES FOR HUMAN SECURITY ENGINEERING

Springer Ever since mankind first appeared on Earth, people have confronted a variety of threats caused by global environmental changes and catastrophic natural disasters. In recent years, there has been a huge necessity to attempt the complementary co-evolution among technologies, urban management, and policy design by putting greater emphasis on local orientation while fully utilizing academic traditions of civil engineering, architecture, environmental engineering and disaster prevention research. This book seeks to meet the challenge of defining the new concept "human security engineering" via the implementation of such applicable technologies in Asian megacities.

PRINCIPLES OF INFRASTRUCTURE

CASE STUDIES AND BEST PRACTICES

Infrastructure is a priority around the world for all stakeholders. Infrastructure projects can continue for several years, from planning and construction to the provision of services. As development in Asia

and the Pacific accelerates, governments must invest more in infrastructure to ensure continued economic growth. This book draws on lessons and case studies from Japan and worldwide, covering broad and long-term infrastructure projects. It describes the principles of developing quality infrastructure and focuses on the various steps of a project--from design, planning, and construction to operation and management. It also discusses overseas development assistance, taking examples from Asian Development Bank and World Bank projects. This book is an important reference tool for policy makers in Asia who are planning and implementing large-scale public infrastructure.

WADI FLASH FLOODS

CHALLENGES AND ADVANCED APPROACHES FOR DISASTER RISK REDUCTION

Springer This open access book brings together research studies, developments, and application-related flash flood topics on wadi systems in arid regions. The major merit of this comprehensive book is its focus on research and technical papers as well as case study applications in different regions worldwide that cover many topics and answer several scientific questions. The book chapters comprehensively and significantly highlight different scientific research disciplines related to wadi flash floods, including climatology, hydrological models, new monitoring techniques, remote sensing techniques, field investigations, international collaboration projects, risk assessment and mitigation, sedimentation and sediment transport, and groundwater quality and quantity assessment and management. In this book, the contributing authors (engineers, researchers, and professionals) introduce their recent scientific findings to develop suitable, applicable, and innovative tools for forecasting, mitigation, and water management as well as society development under seven main research themes as follows: Part 1. Wadi Flash Flood Challenges and Strategies Part 2. Hydrometeorology and Climate Changes Part 3. Rainfall-Runoff Modeling and Approaches Part 4. Disaster Risk Reduction and Mitigation Part 5. Reservoir Sedimentation and Sediment Yield Part 6. Groundwater Management Part 7. Application and Case Studies The book includes selected high-quality papers from five series of the International Symposium on Flash Floods in Wadi Systems (ISFF) that were held in 2015, 2016, 2017, 2018, and 2020 in Japan, Egypt, Oman, Morocco, and Japan, respectively. These collections of chapters could provide valuable guidance and scientific content not only for academics, researchers, and students but also for decision-makers in the MENA region and worldwide.

THE ISRM SUGGESTED METHODS FOR ROCK CHARACTERIZATION, TESTING AND MONITORING: 2007-2014

Springer This book is a collection of ISRM suggested methods for testing or measuring properties of rocks and rock masses both in the laboratory and in situ, as well as for monitoring the performance of rock engineering structures. The first collection (Yellow Book) has been published in 1981. In order to provide access to all the Suggested Methods in one volume, the ISRM Blue Book was published in 2007 (by the ISRM via the Turkish National Group) and contains the complete set of Suggested Methods from 1974 to 2006 inclusive. The papers in this most recent volume have been published during the last seven years in international journals, mainly in Rock Mechanics and Rock Engineering. They offer guidance for rock characterization procedures and laboratory and field testing and monitoring in rock engineering. These methods provide a definitive procedure for the identification, measurement and evaluation of one or more qualities, characteristics or properties of rocks or rock systems that produces a test result.

ENGINEERING FOR EARTHQUAKE DISASTER MITIGATION

Springer Earthquake and tsunami disasters have been increasing rapidly and globally in the last quarter-century. The purpose of this book is to provide essential knowledge and information on the mitigation of earthquakes and tsunamis for graduate students, young researchers, and geotechnical engineers. It begins by presenting recent cases of earthquakes that have occurred in the world, referring to tsunamis and soil liquefaction and how to cope with such disasters. The final chapter proposes strategies for disaster mitigation against in Japan earthquakes and tsunamis in the future.

SEAWATER IN CONCRETE MIX

CRC Press In the near future, many parts of the world will suffer from a shortage of freshwater. Effective use of seawater in concrete production could therefore become a crucial technology. Seawater in Concrete Mix provides a detailed overview of the fundamental knowledge of concrete engineering that is essential for the usage of seawater-mixed concrete. According to the worldwide standard for reinforced concrete (RC), freshwater is typically used in concrete mixing rather than seawater. Yet a potential exists for the extensive use of seawater in concrete, especially with the addition of ground granulated blast-furnace slag, fly ash, or other mineral admixtures. The recent trend toward performance-based design makes this alternative more viable. The text is ideal for graduate students, researchers, concrete engineers, and all civil engineers who deal with concrete for infrastructure. Hidenori Hamada is Professor of Kyushu University, Japan. Nobuaki Otsuki is Professor Emeritus of Tokyo Institute of Technology and was Chairman of the JCI Technical Committee on the use of seawater in concrete. Takahiro Nishida is Senior Researcher of the Japanese National Institute of Maritime, Port and Aviation Technology.

WOMEN OF OWU

Ibadan University Press This is an African retelling of Euripides: an unnervingly topical story of a people and a beloved city destroyed by the brutality of war. The play was first performed in Lagos in 2003 under the distinguished director Chuck Mike, and subsequently toured the UK.

COMPUTATIONAL AND EXPERIMENTAL SIMULATIONS IN ENGINEERING

PROCEEDINGS OF ICCES2019

Springer Nature This book gathers the latest advances, innovations, and applications in the field of computational engineering, as presented by leading international researchers and engineers at the 24th International Conference on Computational & Experimental Engineering and Sciences (ICCES), held in Tokyo, Japan on March 25-28, 2019. ICCES covers all aspects of applied sciences and engineering: theoretical, analytical, computational, and experimental studies and solutions of problems in the physical, chemical, biological, mechanical, electrical, and mathematical sciences. As such, the book discusses highly diverse topics, including composites; bioengineering & biomechanics; geotechnical engineering; offshore & arctic engineering; multi-scale & multi-physics fluid engineering; structural integrity & longevity; materials design & simulation; and computer modeling methods in engineering. The contributions, which were selected by means of a rigorous international peer-review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.

JUSTICE LEAGUE: GODS AND MONSTERS

DC The prequel to the critically acclaimed animated film, from an all-star lineup of creators including Bruce Timm (BATMAN: THE ANIMATED SERIES), J.M. DeMatteis (JUSTICE LEAGUE INTERNATIONAL), Thony Silas (BATMAN BEYOND) and many more! In this alternate universe, the Justice League isn't a team of the world's greatest superheroes who protect Earth from evil and save it from disaster. No, this Justice League is a trio of ruthless heroes who answer to no one and will stop at nothing to destroy their enemies. The names are the same, but not the people they're attached to: Superman is the son of Zod, Batman is an inhuman vampire, and Wonder Woman is a tragic former resident of New Genesis. These are the world's best and only hope. Collects JUSTICE LEAGUE: GODS AND MONSTERS #1-3, JUSTICE LEAGUE: GODS AND MONSTERS SUPERMAN #1, JUSTICE LEAGUE: GODS AND MONSTERS BATMAN #1, and JUSTICE LEAGUE: GODS AND MONSTERS WONDER WOMAN #1.

BALANCE OF PAYMENTS MANUAL

International Monetary Fund The fifth edition of Balance of Payments Manual, issued in 1993, presents revised and updated standards for concepts, definitions, classifications, and conventions for compilation of balance of payments and international investment position statistics that reflect the widespread changes that have taken place in international transactions since the fourth edition was published in 1977. As the international standard, the Manual serves as a guide for IMF member countries that regularly report balance of payments data to the IMF. The Manual contains significantly expanded and restructured coverage of financial flows and stocks and international transactions in services. Harmonization with the System of National Accounts and other IMF statistical systems is also greatly increased. See also companion volumes, the Balance of Payments Compilation Guide and the Balance of Payments Textbook.

ATMOSPHERIC CORROSION

John Wiley & Sons Presents a comprehensive look at atmospheric corrosion, combining expertise in corrosion science and atmospheric chemistry Is an invaluable resource for corrosion scientists, corrosion engineers, and anyone interested in the theory and application of Atmospheric Corrosion Updates and expands topics covered to include, international exposure programs and the environmental effects of atmospheric corrosion Covers basic principles and theory of atmospheric corrosion chemistry as well as corrosion mechanisms in controlled and uncontrolled environments Details degradation of materials in architectural and structural applications, electronic devices, and cultural artifacts Includes appendices with data on specific materials, experimental techniques, atmospheric species

CLASSROOM ASSESSMENT

WHAT TEACHERS NEED TO KNOW

Pearson Jim Popham's widely popular Classroom Assessment shows teachers how to use classroom testing skillfully and formatively to dramatically increase their teaching effectiveness and make a difference in how well students learn. As in past editions, the author pays particular attention to the instructional payoffs of well-designed classroom tests and highlights the implications of testing on teaching throughout in special But What Does This Have to Do with Teaching? sections in each chapter. Decision Time vignettes present practical classroom problems and show readers actual decisions

being made. Parent Talk features describe situations in which a teacher needs to explain something about assessment to parents and show what the author would say in that situation. And a lighter tone is established with cartoons to which readers can relate. The new Eighth Edition highlights the increasing importance of educational assessment in an era of common core state standards and teacher evaluations based on students' tests scores, incorporates the Standards for Educational and Psychological testing guidelines throughout relevant sections, and includes a new section on instructionally diagnostic tests to help readers evaluate the merits of commercial or locally developed diagnostic assessment. Also available with MyLab Education MyLab(tm) is the teaching and learning platform that empowers you to reach every student. By combining trusted author content with digital tools and a flexible platform, MyLab personalizes the learning experience and improves results for each student. MyLab Education helps teacher candidates bridge the gap between theory and practice-better preparing them for success in their future classrooms. Note: You are purchasing a standalone product; MyLab Education does not come packaged with this content. Students, if interested in purchasing this title with MyLab Education, ask your instructor to confirm the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information. If you would like to purchase both the physical text and MyLab Education search for: 0134027299 / 9780134027296 Classroom Assessment: What Teachers Need to Know with MyEducationLab with Enhanced Pearson eText, Loose-Leaf Version -- Access Card Package Package consists of: 0134053869 / 9780134053868 Classroom Assessment: What Teachers Need to Know, Loose-Leaf Version 0134239903 / 9780134239903 MyEducationLab with Pearson eText -- Access Card -- for Classroom Assessment: What Teachers Need to Know

HANDBOOK OF LOW CARBON CONCRETE

Butterworth-Heinemann Handbook of Low Carbon Concrete brings together the latest breakthroughs in the design, production, and application of low carbon concrete. In this handbook, the editors and contributors have paid extra attention to the emissions generated by coarse aggregates, emissions due to fine aggregates, and emissions due to cement, fly ash, GGBFS, and admixtures. In addition, the book provides expert coverage on emissions due to concrete batching, transport and placement, and emissions generated by typical commercially produced concretes. Includes the tools and methods for reducing the emissions of greenhouse gases Explores technologies, such as carbon capture, storage, and substitute cements Provides essential data that helps determine the unique factors involved in designing large, new green cement plants

LANDSCAPE DYNAMICS, SOILS AND HYDROLOGICAL PROCESSES IN VARIED CLIMATES

Springer The book presents the processes governing the dynamics of landscapes, soils and sediments, water and energy under different climatic regions using studies conducted in varied climatic zones including arid, semi-arid, humid and wet regions. The spatiotemporal availability of the processes and fluxes and their linkage to the environment, land, soil and water management are presented at various scales. Spatial scales including laboratory, field, watershed, river basin and regions are represented. The effect of tillage operations and land management on soil physical characteristics and soil moisture is discussed. The book has 35 chapters in seven sections: 1) Landscape and Land Cover Dynamics, 2) Rainfall-Runoff Processes, 3) Floods and Hydrological Processes 4) Groundwater Flow and Aquifer Management, 5) Sediment Dynamics and Soil Management, 6) Climate change impact on vegetation, sediment and water dynamics, and 7) Water and Watershed Management.

THE OXFORD HANDBOOK OF THE PROPHETS

Oxford University Press This volume engages the cultural norms and theological convictions of ancient Israel in the shadow of the Egyptian, Babylonian, and Persian empires. Essays explore ancient Near Eastern historical contexts; interpret prophetic narratives and poetry; offer feminist, materialist, and postcolonial readings and more. Indispensable for scholars and students of the prophets.

HANDBOOK ON HIGH-SPEED RAIL AND QUALITY OF LIFE

Asian Development Bank Handbook on High-Speed Rail and Quality of Life outlines global experiences of high-speed rail development, including its construction, impacts, and planning, with a special focus on countries that are planning implementation in the coming decade. High-speed rail infrastructure can bring considerable socioeconomic benefits that cannot be captured through econometric modeling alone. Thus, analysis of the true impacts requires a scalar as well as a temporal lens. The studies in this handbook discuss transport infrastructure projects of varying geographic scale and describe the underlying complexities of developing an infrastructure system while focusing on the aspects that can enhance quality of life. The cases, concepts, and ideas presented in this handbook were discussed and refined during a conference and seminar series held at the Asian Development Bank Institute in Tokyo and special sessions on transport and quality of life at the 15th World Conference on Transport Research at the Indian Institute of Technology Bombay in Mumbai. The special sessions were jointly organized by the Asian Development Bank Institute and World Conference on Transport Research Society Special Interest Group A4, "High-Speed Rail: Policy, Investment, and Impacts". The conference and special sessions highlighted critical issues and delivered key messages on the broad research on high-speed rail and quality of life.

ADVANCES IN COMPUTER METHODS AND GEOMECHANICS

IACMAG SYMPOSIUM 2019 VOLUME 1

Springer Nature This volume presents selected papers from IACMAG Symposium, The major themes covered in this conference are Earthquake Engineering, Ground Improvement and Constitutive Modelling. This volume will be of interest to researchers and practitioners in geotechnical and geomechanical engineering.

LESSONS LEARNED FROM THE FUKUSHIMA NUCLEAR ACCIDENT FOR IMPROVING SAFETY OF U.S. NUCLEAR PLANTS

National Academy Press The March 11, 2011, Great East Japan Earthquake and tsunami sparked a humanitarian disaster in northeastern Japan. They were responsible for more than 15,900 deaths and 2,600 missing persons as well as physical infrastructure damages exceeding \$200 billion. The earthquake and tsunami also initiated a severe nuclear accident at the Fukushima Daiichi Nuclear Power Station. Three of the six reactors at the plant sustained severe core damage and released hydrogen and radioactive materials. Explosion of the released hydrogen damaged three reactor buildings and impeded onsite emergency response efforts. The accident prompted widespread evacuations of local populations, large economic losses, and the eventual shutdown of all nuclear power plants in Japan. "Lessons Learned from the Fukushima Nuclear Accident for Improving Safety and Security of U.S. Nuclear Plants" is a study of the Fukushima Daiichi accident. This report examines the causes of the crisis, the performance of safety systems at the plant, and the responses of its operators following the earthquake and tsunami. The report then considers the lessons that can be learned and their implications for U.S. safety and storage of spent nuclear fuel and high-level waste, commercial nuclear reactor safety and security regulations, and design improvements. "Lessons Learned" makes recommendations to improve plant systems, resources, and operator training to enable effective ad hoc responses to severe accidents. This report's recommendations to incorporate modern risk concepts into safety regulations and improve the nuclear safety culture will help the industry prepare for events that could challenge the design of plant structures and lead to a loss of critical safety functions. In providing a broad-scope, high-level examination of the accident, "Lessons Learned" is meant to complement earlier evaluations by industry and regulators. This in-depth review will be an essential resource for the nuclear power industry, policy makers, and anyone interested in the state of U.S. preparedness and response in the face of crisis situations.

EDUCATIONAL MEASUREMENT AND EVALUATION

McGraw-Hill Companies

VITAL STATISTICS RATES IN THE UNITED STATES, 1940-1960

ENCYCLOPEDIA OF REPRODUCTION

Academic Press Encyclopedia of Reproduction, Second Edition comprehensively reviews biology and abnormalities, also covering the most common diseases in humans, such as prostate and breast cancer, as well as normal developmental biology, including embryogenesis, gestation, birth and puberty. Each article provides a comprehensive overview of the selected topic to inform a broad spectrum of readers, from advanced undergraduate students, to research professionals. Chapters also explore the latest advances in cloning, stem cells, endocrinology, clinical reproductive medicine and genomics. As reproductive health is a fundamental component of an individual's overall health status and a central determinant of quality of life, this book provides the most extensive and authoritative reference within the field. Provides a one-stop shop for information on reproduction that is not available elsewhere Includes extensive coverage of the full range of topics, from basic, to clinical considerations, including evolutionary advances in molecular, cellular, developmental and clinical sciences Includes multimedia and interactive teaching tools, such as downloadable PowerPoint slides, video content and interactive elements, such as the Virtual Microscope

REINFORCED CONCRETE WITH FRP BARS

MECHANICS AND DESIGN

CRC Press Corrosion-resistant, electromagnetic transparent and lightweight fiber-reinforced polymers (FRPs) are accepted as valid alternatives to steel in concrete reinforcement. Reinforced Concrete with FRP Bars: Mechanics and Design, a technical guide based on the authors' more than 30 years of collective experience, provides principles, algorithms, and practical examples. Well-illustrated with case studies on flexural and column-type members, the book covers internal, non-prestressed FRP reinforcement. It assumes some familiarity with reinforced concrete, and excludes prestressing and near-surface mounted reinforcement applications. The text discusses FRP materials properties, and addresses testing and quality control, durability, and serviceability. It provides a historical overview, and

emphasizes the ACI technical literature along with other research worldwide. Includes an explanation of the key physical mechanical properties of FRP bars and their production methods Provides algorithms that govern design and detailing, including a new formulation for the use of FRP bars in columns Offers a justification for the development of strength reduction factors based on reliability considerations Uses a two -story building solved in Mathcad® that can become a template for real projects This book is mainly intended for practitioners and focuses on the fundamentals of performance and design of concrete members with FRP reinforcement and reinforcement detailing. Graduate students and researchers can use it as a valuable resource. Antonio Nanni is a professor at the University of Miami and the University of Naples Federico II. Antonio De Luca and Hany Zadeh are consultant design engineers.

THE STRUCTURAL INTEGRITY OF RECYCLED AGGREGATE CONCRETE PRODUCED WITH FILLERS AND POZZOLANS

Woodhead Publishing *The Structural Integrity of Recycled Aggregate Concrete Produced with Fillers and Pozzolans* presents a review on the use of by-products, fillers and pozzolanic materials in the development of concrete, with an emphasis on structural integrity. The volume is broken down into key sections, including a review of the types of materials that are used as latent hydraulic supplements, fillers and pozzolans for making recycled aggregate concrete, rheology and hydration phenomenon, the mechanical and microscale nature of concrete, and the impact of fillers and pozzolans on the workability of concrete with case studies. Durability and strength development are also discussed. The final section looks at issues such as performance effect, LCA, environmental impact, sustainability and cost benefit analysis. With detailed case studies throughout, this volume will provide useful information for all stakeholders involved in the built environment, including materials scientists, civil engineers, builders, architects and policymakers. Identifies several potential by-products, fillers and pozzolans for the development of durable concrete Acts as a guidebook for constructors and researchers working in the broad field of material science, engineering and in-situ application Presents the durability properties of concrete made of by-products, fillers and pozzolans

EXPO '77

University Press Llc

RIVER, COASTAL AND ESTUARINE MORPHODYNAMICS

Springer Science & Business Media

AFTER GREAT DISASTERS

AN IN-DEPTH ANALYSIS OF HOW SIX COUNTRIES MANAGED COMMUNITY RECOVERY

Great natural disasters are rare, but their aftermath can change the fortunes of a city or region forever. This book and its companion Policy Focus Report identify lessons from different parts of the world to help communities and government leaders better organize for recovery after future disasters. The authors consider the processes and outcomes of community recovery and reconstruction following major disasters in six countries: China, New Zealand, India, Indonesia, Japan, and the United States. Post-disaster reconstruction offers opportunities to improve construction and design standards, renew infrastructure, create new land use arrangements, reinvent economies, and improve governance. If done well, reconstruction can help break the cycle of disaster-related impacts and losses, and improve the resilience of a city or region.

MODELING AND SIMULATION OF SOCIAL-BEHAVIORAL PHENOMENA IN CREATIVE SOCIETIES

FIRST INTERNATIONAL EURO MINI CONFERENCE, MSBC 2019, VILNIUS, LITHUANIA, SEPTEMBER 18-20, 2019, PROCEEDINGS

Springer Nature This volume constitutes the proceedings of the First International EURO Mini Conference on Modelling and Simulation of Social-Behavioural Phenomena in Creative Societies, MSBC 2019, held in Vilnius, Lithuania, in September 2019. The 8 full papers and 2 short papers presented were carefully reviewed and selected from 26 submissions. The papers are organized in the following topical sections: computational intelligence in social sciences; modeling and analysis of social-behavioral processes.

NEO-SIMULATION AND GAMING TOWARD ACTIVE LEARNING

Springer Nature This book provides tips to teachers for moving toward active learning by using simulation and gaming. The book is a rare reference for teachers who wish to initiate active learning by applying many real experiences from world experts in simulation and gaming. This cumulative wisdom comes from cutting-edge trials reported at the 49th International Simulation and Gaming

Association's annual conference in Thailand 9-13 July 2018. The importance of changing teachers' one-way lecture approach to that of active learning has been commonly understood for several decades and has been promoted especially in recent years in Asian universities. Simulation and gaming meets the requirements of such teaching programs, especially for active learning, but there are few books or references on how to gamify a lecture. This book serves as a guide to facilitate that change. The author recognizes the duty to provide readers with fixed directions toward simulation and gaming in the next generation, which have still not been fully elucidated. Developing a simulation and gaming culture and making it sustainable in the next decade are the purpose of this book.

CONTINUUM AND COMPUTATIONAL MECHANICS FOR GEOMECHANICAL ENGINEERS

CRC Press The field of rock mechanics and rock engineering utilizes the basic laws of continuum mechanics and the techniques developed in computational mechanics. This book describes the basic concepts behind these fundamental laws and their utilization in practice irrespective of whether rock/rock mass contains discontinuities. This book consists of nine chapters and six appendices. The first four chapters are concerned with continuum mechanics aspects, which include the basic operations, definition of stress and strain tensors, and derivation of four fundamental conservation laws in the simplest yet precise manner. The next two chapters are the preparation for computational mechanics, which require constitutive laws of geomaterials relevant to each conservation law and the procedures for how to determine required parameters of the constitutive laws. Computational mechanics solves the resulting ordinary and partial differential equations. In Chapter 7, the methods of exact (closed-form) solutions are explained and they are applied to ordinary/partial differential equations with solvable boundary and initial conditions. In Chapter 8, the fundamentals of approximate solution methods are explained for one dimension first and then how to extend them to multi-dimensional problems. The readers are expected to learn and clearly understand how they are derived and applied to various problems in geomechanics. The final chapter involves the applications of the approximate methods to the actual problems in practice for geomechanical engineers, which cover the continuum to discontinuum, including the stress state of the earth as well as the ground motions induced by earthquakes. Six appendices are provided to have a clear understanding of continuum mechanics operations and procedures for how to deal with discontinuities/interfaces often encountered in rock mechanics and rock engineering.