
November 2013 N2 Engineering Papers

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Optical Engineering IGI Global
Safety, Reliability, Risk and Life-Cycle
Performance of Structures and Infrastructures
contains the plenary lectures and papers
presented at the 11th International Conference
on STRUCTURAL SAFETY AND
RELIABILITY (ICOSSAR2013, New York,
NY, USA, 16-20 June 2013), and covers major
aspects of safety, reliability, risk and life-cycle

performance of str

Digital War CRC Press

Digital forensics deals with the acquisition, preservation, examination, analysis and presentation of electronic evidence.

Networked computing, wireless communications and portable electronic devices have expanded the role of digital forensics beyond traditional computer crime investigations. Practically every crime now involves some aspect of digital evidence; digital forensics provides the techniques and tools to articulate this evidence. Digital forensics also has myriad intelligence applications. Furthermore, it has a vital role in information assurance - investigations of security breaches yield valuable information that can be used to design more secure systems. Advances in

Digital Forensics IX describe original research results and innovative applications in the discipline of digital forensics. In addition, it highlights some of the major technical and legal issues related to digital evidence and electronic crime investigations. The areas of coverage include: Themes and Issues, Forensic Models, Forensic Techniques, File system Forensics, Network Forensics, Cloud Forensics, Forensic Tools, and Advanced Forensic Techniques. This book is the ninth volume in the annual series produced by the International Federation for Information Processing (IFIP) Working Group 11.9 on Digital Forensics, an international community of scientists, engineers and practitioners dedicated to advancing the state of the art of research and practice in

digital forensics. The book contains a selection of twenty-five edited papers from the Ninth Annual IFIP WG 11.9 International Conference on Digital Forensics, held in Orlando, Florida, USA in the winter of 2013. *Advances in Digital Forensics IX* is an important resource for researchers, faculty members and graduate students, as well as for practitioners and individuals engaged in research and development efforts for the law enforcement and intelligence communities. Gilbert Peterson is an Associate Professor of Computer Engineering at the Air Force Institute of Technology, Wright-Patterson Air Force Base, Ohio, USA. Sujeet Shenoi is the F.P. Walter Professor of Computer Science and a Professor of Chemical Engineering at the University of Tulsa,

Tulsa, Oklahoma, USA. *Contamination Control in the Natural Gas Industry* Rowman & Littlefield
This book focuses on the application of ionic liquids in flow assurance in the oil and gas industry. It discusses their physiochemical properties, and considers the role of ionic liquids as gas hydrate inhibitors in offshore pipelines. Gas hydrate occurrence can pose a major threat to pipeline integrity. Therefore, different categories of gas hydrate inhibitors and the main factors influencing ionic liquids during gas hydrate inhibition are examined thoroughly. The use of ionic liquids as corrosion inhibitors, their application in flow assurance industry to mitigate corrosion, and factors affecting their performance are discussed. Finally, the applications of ionic

liquids in wax, scale and asphaltenes deposition control is explored. The extensive discussion of ionic liquids in flow assurance mean that this book will be of use to researchers, engineers, and industry professionals in upstream processing of the oil and gas sector.

Ionic Liquids in Flow Assurance

Springer Science & Business Media
As governments and policy makers take advantage of information and communication technologies, leaders must understand how to navigate the ever-shifting landscape of modern technologies in order to be most effective in enacting change and leading their constituents. The Handbook of Research on Advanced ICT Integration for Governance and

Policy Modeling builds on the available literature, research, and recent advances in e-governance to explore advanced methods and applications of digital tools in government. This collection of the latest research in the field presents an essential reference for academics, researchers, and advanced-level students, as well as government leaders, policy makers, and experts in international relations.

ESCAPE-31 ASM International Contamination Control in the Natural Gas Industry delivers the separation fundamentals and technology applications utilized by natural gas producers and processors. This reference covers principles and practices for better design and operation of a wide range of media,

filters and systems to remove contaminants from liquids and gases, enabling gas industry professionals to fulfill diverse fluid purification requirements. Packed to cover practical technologies, diagnostics and troubleshooting methods, this book provides gas engineers and technologists with a critical first-ever reference geared to contamination control. Covers contamination control methods and equipment specific to the natural gas industry Includes guidelines on fundamentals and real-world technologies used today Gives engineers better design and operation with rating methods, standards and case histories

Firebrand Waves of Digital Activism 1994-2014 Elsevier

This edited collection fills a

significant gap in the literature by gathering contributions from the most prominent academics and practitioners of aid and procurement. It explores the economic, political and legal relationship between procurement and aid effectiveness in developing countries, and takes stock of current debates in the field. More specifically, the contributions analyse the failures and successes of current initiatives to foster effectiveness and streamline the aid procurement process, and address current themes emerging in the literature related to development, procurement and aid success. A

pivotal and timely publication, *Public Procurement and Aid Effectiveness* will be of interest to a varied and multicultural international audience and a wide range of actors working on aid effectiveness, development, procurement and good governance initiatives in both donor and beneficiary countries.

31st European Symposium on
Computer Aided Process
Engineering IGI Global

Emerging from the confluence of Greco-Roman mythology and regional folklore, the mermaid has been an enduring motif in Western culture since the medieval period. It has also been disseminated more

widely, initially through Western trade and colonisation and, more recently, through the increasing globalisation of media products and outlets. *Scaled for Success* offers the first detailed overview of the mermaids dispersal outside Europe. Complementing previous studies of the interrelationship between the mermaid and Mami Wata spirit in West Africa, this volume addresses the mermaids presence in a range of Middle Eastern, Asian, Australian, Latin American and North American contexts. Individual chapters identify the manner in which the mermaid has been variously syncretised and/or resigified in

contexts as diverse as Indian public statuary, Thai cinema and Coney Islands annual Mermaid Parade. Rather than lingering as a relic of a bygone age, the mermaid emerges as a versatile, dynamic and, above all, polyvalent figure. Her prominence exemplifies the manner in which contemporary media-lore has extended the currency of established folkloric figures in new and often surprising ways. Analysing aspects of religious symbolism, visual art, literature and contemporary popular culture, this copiously illustrated volume profiles an intriguing and highly diverse phenomenon. Philip Hayward is

editor of the journal *Shima* and holds adjunct professor positions at the University of Technology Sydney and at Southern Cross University. His previous volume, *Making a Splash: Mermaids (and Mermen) in 20th and 21st Century Audiovisual Media*, was published by John Libbey Publishing/Indiana University Press in 2017.

[The Internationalisation of the Mermaid](#) Cambridge University Press

This book constitutes the refereed proceedings of the 19th International Conference on Computing and Combinatorics, COCOON 2013, held in Hangzhou,

China, in June 2013. The 56 revised full papers presented were carefully reviewed and selected from 120 submissions. There was a co-organized workshop on discrete algorithms of which 8 short papers were accepted and a workshop on computational social networks where 12 papers out of 25 submissions were accepted. Current Index to Journals in Education Springer
Top Vol 28-N2-3Rowman & Littlefield
A Critical Introduction Springer
Nature
The International J. Mathematical Combinatorics is a fully refereed

international journal, sponsored by the MADIS of Chinese Academy of Sciences and published in USA quarterly, which publishes original research papers and survey articles in all aspects of mathematical combinatorics, Smarandache multi-spaces, Smarandache geometries, non-Euclidean geometry, topology and their applications to other sciences.
Computing and Combinatorics IGI Global
This comprehensive and carefully edited volume presents a variety of experimental methods used in Shock Waves research. In 14 self contained chapters this 9th volume of the “ Shock

Wave Science and Technology Reference Library ” presents the experimental methods used in Shock Tubes, Shock Tunnels and Expansion Tubes facilities. Also described is their set-up and operation. The uses of an arc heated wind tunnel and a gun tunnel are also contained in this volume. Whenever possible, in addition to the technical description some typical scientific results obtained using such facilities are described. Additionally, this authoritative book includes techniques for measuring physical properties of blast waves and laser generated shock waves. Information about active shock wave laboratories at different locations around the world that are not described in the chapters herein is given in the Appendix, making this book useful for every researcher involved in shock/blast wave phenomena.

Selected Papers on Digital Image Processing Indiana University Press Teacher Education and Practice, a peer-refereed journal, is dedicated to the encouragement and the dissemination of research and scholarship related to professional education. The journal is concerned, in the broadest sense, with teacher preparation, practice and policy issues related to the teaching profession, as well as being concerned with learning in the school setting. The journal also serves as a forum for the exchange of diverse ideas and points of view within

these purposes. As a forum, the journal offers a public space in which to critically examine current discourse and practice as well as engage in generative dialogue. Alternative forms of inquiry and representation are invited, and authors from a variety of backgrounds and diverse perspectives are encouraged to contribute. *Teacher Education & Practice* is published by Rowman & Littlefield.

Thom H. Dunning, Jr. Springer

Learn How to Infuse Leadership into Your Passion for Scientific Research
Leadership and Women in Statistics explores the role of statisticians as leaders, with particular attention to women statisticians as leaders. By paying special attention to women's issues, this book provides a clear vision for the future

of women as leaders in scientific and *Future Communication Technology and Engineering* CRC Press
Digital War offers a comprehensive overview of the impact of digital technologies upon the military, the media, the global public and the concept of 'warfare' itself. This introductory textbook explores the range of uses of digital technology in contemporary warfare and conflict. The book begins with the 1991 Gulf War, which showcased post-Vietnam technological developments and established a new model of close military and media management. It explores how this model was reapplied in Kosovo

(1999), Afghanistan (2001) and Iraq (2003), and how, with the Web 2.0 revolution, this informational control broke down. New digital technologies allowed anyone to be an informational producer leading to the emergence of a new mode of 'participative war', as seen in Gaza, Iraq and Syria. The book examines major political events of recent times, such as 9/11 and the War on Terror and its aftermath. It also considers how technological developments such as unmanned drones and cyberwar have impacted upon global conflict and explores emerging technologies such as soldier-systems, exo-skeletons,

robotics and artificial intelligence and their possible future impact. This book will be of much interest to students of war and media, security studies, political communication, new media, diplomacy and IR in general.

Achieving Positive Outcomes in a Complex World Springer
Plant Hazard Analysis and Safety Instrumentation Systems is the first book to combine coverage of these two integral aspects of running a chemical processing plant. It helps engineers from various disciplines learn how various analysis techniques, international standards, and instrumentation and controls provide layers of protection for basic process control systems, and how, as a result, overall system reliability, availability,

dependability, and maintainability can be increased. This step-by-step guide takes readers through the development of safety instrumented systems, also including discussions on cost impact, basics of statistics, and reliability. Swapan Basu brings more than 35 years of industrial experience to this book, using practical examples to demonstrate concepts. Basu links between the SIS requirements and process hazard analysis in order to complete SIS lifecycle implementation and covers safety analysis and realization in control systems, with up-to-date descriptions of modern concepts, such as SIL, SIS, and Fault Tolerance to name a few. In addition, the book addresses security issues that are particularly important for the programmable systems in modern plants, and discusses, at length, hazardous atmospheres and their impact

on electrical enclosures and the use of IS circuits. Helps the reader identify which hazard analysis method is the most appropriate (covers ALARP, HAZOP, FMEA, LOPA) Provides tactics on how to implement standards, such as IEC 61508/61511 and ANSI/ISA 84 Presents information on how to conduct safety analysis and realization in control systems and safety instrumentation
Plant Hazard Analysis and Safety Instrumentation
Systems Society of Photo Optical Dielectrics in Electric Fields explores the influence of electric fields on dielectric—i.e., non-conducting or insulating—materials, examining the distinctive behaviors of these materials through well-established principles of physics and engineering. Featuring five new chapters, nearly 200 new figures,

and more than 800 new citations, this fully clear understanding of breakdown updated and significantly expanded Second Edition: Analyzes inorganic substances with real-life applications in harsh working conditions such as outdoor, nuclear, and space environments Introduces methods for measuring dielectric properties at microwave frequencies, presenting results obtained for specific materials Discusses the application of dielectric theory in allied fields such as corrosion studies, civil engineering, and health sciences Combines in one chapter coverage of electrical breakdown in gases with breakdown in micrometric gaps Offers extensive coverage of electron energy distribution—essential knowledge required for the application of plasma sciences in medical science Delivers a detailed review of breakdown in liquids, along with an overview of electron mobility, providing a

phenomena Explains breakdown in solid dielectrics such as single crystals, polycrystalline and amorphous states, thin films, and powders compressed to form pellets Addresses the latest advances in dielectric theory and research, including cutting-edge nanodielectric materials and their practical applications Blends early classical papers that laid the foundation for much of the dielectric theory with more recent work The author has drawn from more than 55 years of research studies and experience in the areas of high-voltage engineering, power systems, and dielectric materials and systems to supply both aspiring and practicing engineers with a comprehensive, authoritative source for up-to-date information on dielectrics in electric fields.

Proceedings from the 39th

International Symposium for Testing and Failure Analysis Elsevier Collections: A Journal for Museum and Archives Professionals" is a multi-disciplinary peer-reviewed journal dedicated to the discussion of all aspects of handling, preserving, researching, and organizing collections. Curators, archivists, collections managers, preparators, registrars, educators, students, and others contribute. 4th International Conference, IScIDE 2013, Beijing, China, July 31 -- August 2, 2013, Revised Selected Papers Rowman & Littlefield "This 10-volume compilation of authoritative, research-based

articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities, prospective solutions, and future directions in the field of information science and technology"--Provided by publisher. International Journal of Mathematical Combinatorics, Volume 3, 2013 Springer In this Festschrift celebrating the career of Thom H. Dunning, Jr., selected researchers in theoretical chemistry present research highlights on major developments in the field. Originally published in the journal Theoretical Chemistry Accounts, these outstanding contributions are now available in a hardcover print format, as well as a special electronic edition. This volume

provides valuable content for all researchers in theoretical chemistry and will especially benefit those research groups and libraries with limited access to the journal.

Advances in Digital Forensics IX Disha Publications

Systems engineering has been applied to some of the most important projects of our time, including those that have helped humanity explore the world and the universe, expand our technical abilities, and enhance the quality of human life. Without formal training in systems engineering, the discipline is often difficult to understand and apply, and its use within projects is often confusing. *Systems Engineering for Projects: Achieving Positive Outcomes in a Complex World* provides an

approach that utilizes a combination of the most effective processes from both project management and systems engineering disciplines in a simplified and straightforward manner. The processes described in the book are lightweight, flexible, and tailorable. They provide the shortest path to success in projects across the entire project life cycle, from research to operations, and from simple to the most complex. The book also addresses how this methodology can be used in a continually adapting and changing world, as projects span disciplines and become even more interconnected across all areas of human existence. Each chapter includes diagrams, templates, summary

lists, a case study, and a thought-provoking question and answer section that assists readers in immediate application of the material to their own projects. The book is a project manager ' s resource for understanding how to directly apply essential processes to projects in a way that increases the probability of achieving success. It is a comprehensive, go-to manual on the application of systems engineering processes to projects of all types and complexity.