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### **A NEW COMPANION TO DIGITAL HUMANITIES**

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*John Wiley & Sons* **This highly-anticipated volume has been extensively revised to reflect changes in technology, digital humanities methods and practices, and institutional culture surrounding the valuation and publication of digital scholarship. A fully revised edition of a celebrated reference work, offering the most comprehensive and up-to-date collection of research currently available in this rapidly evolving discipline Includes new articles addressing topical and provocative issues and ideas such as retro computing, desktop fabrication, gender dynamics, and globalization Brings together a global team of authors who are pioneers of innovative research in the digital humanities Accessibly structured into five sections exploring infrastructures, creation, analysis, dissemination, and the future of digital humanities Surveys the past, present, and future of the field, offering essential research for anyone interested in better understanding the theory, methods, and application of the digital humanities**

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### **ADVANCES IN MATERIALS SCIENCE FOR ENVIRONMENTAL AND ENERGY TECHNOLOGIES III**

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*John Wiley & Sons* **This proceedings contains a collection of 26 papers from the following six 2013 Materials Science and Technology (MS&T'13) symposia: Green Technologies for Materials Manufacturing and Processing V Materials Development and Degradation Management in Nuclear Applications Materials Issues in Nuclear Waste Management in the 21st Century Energy Storage III: Materials, Systems and Applications Nanotechnology for Energy, Healthcare and Industry Hybrid Organic - Inorganic Materials for Alternative Energy**

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## CHINA'S GLOBALIZING INTERNET

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### HISTORY, POWER, AND GOVERNANCE

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*Taylor & Francis* This book considers the Chinese internet as an ensemble of ideas, ownership, policies, laws, and interests that intersect with pre-existing global elements and, increasingly, with deepening globalizing imperatives. It extends traditional inquiry about digital China and globalization and encourages closer attention to contestation, shifting international order, transformation of states, and new requirements of global digital capitalism. Across the three foci of history, power, and governance, this book considers the ways the Chinese internet is entangled with transnational capitals, ideas, and institutions, while at the same time manifests a strong globalizing drive. It begins with a historical political economy approach that emphasizes the dialectics between structural imperatives and historical contingency. As for governance, the Chinese state has set out to re-regulate the internet as the network becomes ubiquitous during the nation's web-oriented digital transformation. Such a state-centric governance model, however, is likely to affect China's global expansion, apart from the fact that the state is taking an active interest in global internet governance. This book will be of interest to researchers and advanced students of Communication Studies, Politics, Sociology, Economics, Cultural Studies, and Science and Technology Studies. The chapters in this book were originally published as a special issue of the Chinese Journal of Communication.

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## HANDBOOK OF SMALL MODULAR NUCLEAR REACTORS

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### SECOND EDITION

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*Woodhead Publishing* Handbook of Small Modular Nuclear Reactors, Second Edition is a fully updated comprehensive reference on Small Modular Reactors (SMRs), which reflects the latest research and technological advances in the field from the last five years. Editors Daniel T. Ingersoll and Mario D. Carelli, along with their team of expert contributors, combine their wealth of collective experience to update this comprehensive handbook that provides the reader with all required knowledge on SMRs, expanding on the rapidly growing interest and development of SMRs around the globe. This book begins with an introduction to SMRs for power generation, an overview of international developments, and an analysis of Integral Pressurized Water Reactors as a popular class of SMRs. The second part of the book is dedicated to SMR technologies, including physics, components, I&C, human-system interfaces and safety aspects. Part three discusses the implementation of SMRs, covering economic factors, construction methods, hybrid energy systems and licensing considerations. The fourth part of the book provides an in-depth analysis of SMR R&D and deployment of SMRs within eight countries, including the

United States, Republic of Korea, Russia, China, Argentina, and Japan. This edition includes brand new content on the United Kingdom and Canada, where interests in SMRs have increased considerably since the first edition was published. The final part of the book adds a new analysis of the global SMR market and concludes with a perspective on SMR benefits to developing economies. This authoritative and practical handbook benefits engineers, designers, operators, and regulators working in nuclear energy, as well as academics and graduate students researching nuclear reactor technologies. Presents the latest research on SMR technologies and global developments Includes new case study chapters on the United Kingdom and Canada and a chapter on global SMR markets Discusses new technologies such as floating SMRs and molten salt SMRs

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## **MINERALS YEARBOOK**

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## **METALS AND MINERALS**

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This volume, covering metals and minerals, contains chapters on approximately 90 commodities. In addition, this volume has chapters on mining and quarrying trends and on statistical surveying methods used by Minerals Information, plus a statistical summary.

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## **MODEL RULES OF PROFESSIONAL CONDUCT**

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*American Bar Association* The Model Rules of Professional Conduct provides an up-to-date resource for information on legal ethics. Federal, state and local courts in all jurisdictions look to the Rules for guidance in solving lawyer malpractice cases, disciplinary actions, disqualification issues, sanctions questions and much more. In this volume, black-letter Rules of Professional Conduct are followed by numbered Comments that explain each Rule's purpose and provide suggestions for its practical application. The Rules will help you identify proper conduct in a variety of given situations, review those instances where discretionary action is possible, and define the nature of the relationship between you and your clients, colleagues and the courts.

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## **KOENIG AND SCHULTZ'S DISASTER MEDICINE**

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## **COMPREHENSIVE PRINCIPLES AND PRACTICES**

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*Cambridge University Press* As societies become more complex and interconnected, the global risk for catastrophic disasters is increasing. Demand for expertise to mitigate the human suffering and damage these events cause is also high. A new field of disaster medicine is emerging, offering innovative approaches to optimize disaster management. Much of the information needed to create the foundation for this growing specialty is not objectively described or is scattered among multiple different sources. This definitive work brings together a coherent and comprehensive collection of scientific observations and evidence-based

recommendations with expert contributors from around the globe. This book identifies essential subject matter, clarifies nomenclature, and outlines necessary areas of proficiency for healthcare professionals handling mass casualty crises. It also describes in-depth strategies for the rapid diagnosis and treatment of victims suffering from blast injuries or exposure to chemical, biological, and radiological agents.

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## **HANDBOOK OF RESEARCH ON RECENT DEVELOPMENTS IN MATERIALS SCIENCE AND CORROSION ENGINEERING EDUCATION**

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*IGI Global* The latest research innovations and enhanced technologies have altered the discipline of materials science and engineering. As a direct result of these developments, new trends in Materials Science and Engineering (MSE) pedagogy have emerged that require attention. The Handbook of Research on Recent Developments in Materials Science and Corrosion Engineering Education brings together innovative and current advances in the curriculum design and course content of MSE education programs. Focusing on the application of instructional strategies, pedagogical frameworks, and career preparation techniques, this book is an essential reference source for academicians, engineering practitioners, researchers, and industry professionals interested in emerging and future trends in MSE training and education.

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## **NONWOVENS**

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### **PROCESS, STRUCTURE, PROPERTIES AND APPLICATIONS**

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*CRC Press* **Nonwovens: Process, Structure, Properties and Applications** outlines the concept and principle of entire nonwoven manufacturing process starting from raw material selection, web formation techniques, web bonding methods and finishing. Further, characterization and testing of non-woven fabrics, application of non-woven fabrics in different areas such as apparel, aggrotech, geotech, medical and hygiene, automotive textiles, filtration products, home textiles, roofing and construction and packaging were also discussed in detail. The advancements in non-woven manufacturing known as composite non-woven, their properties and applications were discussed in detail. The application of natural fibers in non-woven manufacturing with their advantages and limitations were also discussed in brief. This book is primarily a text book intended for textile technology students in universities and colleges, researchers, industrialists and academicians, as well as professionals in the apparel and textile industry.

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## **ROUTLEDGE HANDBOOK OF NUCLEAR PROLIFERATION AND POLICY**

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*Routledge* This new Handbook is a comprehensive examination of the rich and complex issues of nuclear proliferation in the early 21st century. The future of the decades-long effort to prevent the further spread of weapons

of mass destruction is at a crossroads today. If international nonproliferation efforts are to be successful, an integrated, multi-tiered response will almost certainly be necessary. A serious, thorough, and clear-eyed examination of the range of threats, challenges, and opportunities facing the international community is a necessary first step. This Handbook, which presents the most up-to-date analysis and policy recommendations on these critical issues by recognized, leading scholars in the field, intends to provide such an examination. The volume is divided into three major parts: Part I presents detailed threat assessments of proliferation risks across the globe, including specific regions and countries. Part II explains the various tools developed by the international community to address these proliferation threats. Part III addresses the proliferation risks and political challenges arising from nuclear energy production, including potential proliferation by aspiring states and nonstate groups. This Handbook will be of great interest to students and practitioners of nuclear proliferation, arms control, global governance, diplomacy, and global security and IR general.

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### **THE PRECAUTIONARY PRINCIPLE IN EU RISK REGULATION: A MATTER OF PRIORITIES**

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*Anchor Academic Publishing (aap\_verlag)* The precautionary principle provides a justification to act where scientific uncertainty about the nature and extent of detected indications of harm would otherwise possibly impede regulatory interventions. The highly controversial and often misunderstood principle plays a central role in European risk regulation. The present volume should allow readers to gain an overview of all essential points linked with the role of the principle in the risk regulation framework of the European Union. Based on an outline of the precautionary principle's main characteristics and its conception by the European Commission, common allegations brought against the principle are illuminated and critically assessed. The second part of the book is then devoted to the actual implementation of the principle in the EU - from early applications to ongoing disputes. Three case studies from the agrochemical, pharmaceutical and food packaging sector reflect current applications as well as the relevant institutional and procedural framework. Insights from the theoretical part and the case studies are melted in the final discussion section that also includes recommendations for EU risk regulators.

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### **REMARKABLE NATURAL MATERIAL SURFACES AND THEIR ENGINEERING POTENTIAL**

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*Springer Science & Business Media* This book explores a collection of natural surfaces, their scientific characteristics and their unique engineering potential - demonstrating that engineering applications can be found in unexpected places. The surfaces covered range from botanical ones, like rice and lotus leaves, to insect surfaces, like butterfly and dragonfly wings.

The variety of surfaces and numerous engineering potentials described show how biomimicry can be utilized to solve countless real-world problems.

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## **RARE EARTHS**

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### **SCIENCE, TECHNOLOGY, PRODUCTION AND USE**

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*Elsevier* High-technology and environmental applications of the rare-earth elements (REE) have grown dramatically in diversity and importance over the past four decades. This book provides a scientific understanding of rare earth properties and uses, present and future. It also points the way to efficient recycle of the rare earths in end-of-use products and efficient use of rare earths in new products. Scientists and students will appreciate the book's approach to the availability, structure and properties of rare earths and how they have led to myriad critical uses, present and future. Experts should buy this book to get an integrated picture of production and use (present and future) of rare earths and the science behind this picture. This book will prove valuable to non-scientists as well in order to get an integrated picture of production and use of rare earths in the 21st Century, and the science behind this picture. Defines the chemical, physical and structural properties of rare earths. Gives the reader a basic understanding of what rare earths can do for us. Describes uses of each rare earth with chemical, physics, and structural explanations for the properties that underlie those uses. Allows the reader to understand how rare earths behave and why they are used in present applications and will be used in future applications. Explains to the reader where and how rare earths are found and produced and how they are best recycled to minimize environmental impact and energy and water consumption.

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### **INTRODUCTION TO MATERIALS FOR ADVANCED ENERGY SYSTEMS**

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*Springer* This first of its kind text enables today's students to understand current and future energy challenges, to acquire skills for selecting and using materials and manufacturing processes in the design of energy systems, and to develop a cross-functional approach to materials, mechanics, electronics and processes of energy production. While taking economic and regulatory aspects into account, this textbook provides a comprehensive introduction to the range of materials used for advanced energy systems, including fossil, nuclear, solar, bio, wind, geothermal, ocean and hydropower, hydrogen, and nuclear, as well as thermal energy storage and electrochemical storage in fuel cells. A separate chapter is devoted to emerging energy harvesting systems. Integrated coverage includes the application of scientific and engineering principles to materials that enable different types of energy systems. Properties, performance, modeling, fabrication, characterization and application of structural, functional and hybrid materials are described for each energy

system. Readers will appreciate the complex relationships among materials selection, optimizing design, and component operating conditions in each energy system. Research and development trends of novel emerging materials for future hybrid energy systems are also considered. Each chapter is basically a self-contained unit, easily enabling instructors to adapt the book for coursework. This textbook is suitable for students in science and engineering who seek to obtain a comprehensive understanding of different energy processes, and how materials enable energy harvesting, conversion, and storage. In setting forth the latest advances and new frontiers of research, the text also serves as a comprehensive reference on energy materials for experienced materials scientists, engineers, and physicists. Includes pedagogical features such as in-depth side bars, worked-out and end-of- chapter exercises, and many references to further reading Provides comprehensive coverage of materials-based solutions for major and emerging energy systems Brings together diverse subject matter by integrating theory with engaging insights

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## **REBUILDING ASIA FOLLOWING NATURAL DISASTERS**

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### **APPROACHES TO RECONSTRUCTION IN THE ASIA-PACIFIC REGION**

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*Cambridge University Press* Providing a detailed and comparative assessment of the humanitarian responses to a series of major disasters in Asia over the past two decades, including massive earthquakes, volcanic eruptions, and tsunamis, this book explores complex and changing understandings and practices of relief, recovery, and reconstruction. These critical investigations raise questions about the position and responsibilities of a growing range of stakeholders, and provide in-depth explorations of the ways in which local communities are transformed on multiple levels - not only by the impact of disaster events, but also by the experiences of rebuilding. This timely volume highlights how the experiences of Asia can contribute towards post-disaster responses globally, to safeguard future communities and reduce vulnerabilities. This is a valuable resource for academic researchers interested in post-disaster transformations and development studies, practitioners in NGOs, and government officials dealing with disaster response and disaster risk reduction.

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## **INTERDISCIPLINARY MOBILE MEDIA AND COMMUNICATIONS: SOCIAL, POLITICAL, AND ECONOMIC IMPLICATIONS**

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### **SOCIAL, POLITICAL, AND ECONOMIC IMPLICATIONS**

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*IGI Global* As mobile technology becomes much more prominent in the world, its effect on the social, political, and economic realms cannot be ignored. Interdisciplinary approaches towards re-examining the prevalence of communication technologies are essential for industry professionals' development. Interdisciplinary Mobile Media and Communications: Social,

**Political, and Economic Implications** sheds light on emerging disciplines in multimedia technologies and discusses the changes, chances, and challenges in the mobile world. Areas such as mobile governance, mobile healthcare, and mobile identity are examined, along with their social, political, and economic implications. Serving as a reconnection between academia and industry, this book will be useful for students, professors, researchers, and policy-makers of mobile media and communications.

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### **MINERALS YEARBOOK**

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### **THE PRESERVATION MANAGEMENT HANDBOOK**

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### **A 21ST-CENTURY GUIDE FOR LIBRARIES, ARCHIVES, AND MUSEUMS**

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*Rowman & Littlefield Publishers* "Museum curators, museum professionals, archivists and librarians from small local history museums to world-famous art and natural history collections, must deploy their specialized knowledge to prioritize the needs of their collections. This revised volume has a wide range of topic-specific expertise that comprises both an enduring text for preservation students as well as an essential one-stop reference for cultural heritage professionals where resources are limited and professional help is not always at hand"--

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### **POLYMER COMPOSITES IN THE AEROSPACE INDUSTRY**

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*Woodhead Publishing* **Polymer Composites in the Aerospace Industry, Second Edition**, summarizes the latest research and developments on the design, manufacture and performance of composite components for aerospace structures. Sections cover the modeling, structure and behavior of 2D and 3D woven composites, the manufacture processes used for composite materials and components, buckling and compressive strength of laminates and manufacturing defects in composite materials, aspects of composite performance in aerospace structural design, including chapters on modeling stiffness and strength of structural elements, fatigue under uniaxial and multiaxial loads, fracture mechanics, impact strength and fatigue, crashworthiness, design and failure analysis of bolted joints, and much more. This updated edition is an essential reference resource for engineers, scientists and designers working in the development of composite materials in aerospace applications. Presents detailed discussions on the design, modeling and analysis of conventional and advanced polymer composites used in aerospace applications Provides an in-depth understanding of the performance parameters of aerospace composites, such as strength, stiffness and fatigue, impact and blast resistance Includes significant developments that have occurred since 2015 (in production and manufacturing, fatigue modeling, test standards, adhesive bonding and repair and service techniques) Features a brand new section on design applications, including helicopter components, fixed wing landing gear, aircraft wings and fuselage

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## **THE EXTRAORDINARY CHAMBERS IN THE COURTS OF CAMBODIA**

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### **ASSESSING THEIR CONTRIBUTION TO INTERNATIONAL CRIMINAL LAW**

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*Springer* This book is the first comprehensive study on the work and functioning of the Extraordinary Chambers in the Courts of Cambodia (ECCC). The ECCC were established in 2006 to bring to trial senior leaders and those most responsible for serious crimes committed under the notorious Khmer Rouge regime. Established by domestic law following an agreement in 2003 between the Kingdom of Cambodia and the UN, the ECCC's hybrid features provide a unique approach of accountability for mass atrocities. The book entails an analysis of the work and jurisprudence of the ECCC, providing a detailed assessment of their legacies and contribution to international criminal law. The collection, containing 20 chapters from leading scholars and practitioners with inside knowledge of the ECCC, discuss the most pressing topics and its implications for international criminal law. These include the establishment of the ECCC, subject matter crimes, joint criminal enterprise and procedural aspects, including questions regarding the trying of frail accused persons and the admission of torture statements into evidence. Simon M. Meisenberg is an Attorney-at-Law in Germany, formerly he was a Legal Advisor to the ECCC and a Senior Legal Officer at the Special Court for Sierra Leone. Ignaz Stegmiller is Coordinator for the International Programs of the Faculty of Law at the Franz von Liszt Institute for International and Comparative Law, Giessen, Germany.

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## **ANTIMICROBIAL USAGE IN COMPANION AND FOOD ANIMALS: METHODS, SURVEYS AND RELATIONSHIPS WITH ANTIMICROBIAL RESISTANCE IN ANIMALS AND HUMANS, VOLUME II**

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*Frontiers Media SA*

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## **CULTURAL LANDSCAPES OF SOUTH ASIA**

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### **STUDIES IN HERITAGE CONSERVATION AND MANAGEMENT**

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*Routledge* Winner of the Environmental Design Research Association's 2018 Achievement Award The pluralism of South Asia belies any singular reading of its heritage. In spite of this diversity, its cultural traditions retain certain attributes that are at their core South Asian—in their capacity to self-organize, enact and reinvent cultural memories, and in their ability to retain an intimate connection with nature and landscape. This volume focuses on the notion of cultural landscape as a medium integrating multiple forms of heritage and points to a new paradigm for conservation practices in the South Asian context. Even though the construct of cultural landscape has been accepted as a category of heritage, its potent use in heritage management in general and within the South Asian context in particular has not been widely studied. The volume challenges the

prevalent views of heritage management in South Asia that are entrenched in colonial legacies and contemporary global policy frameworks.

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## **MILITARY REVIEW**

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## **SOLUTIONS FOR SUSTAINABLE DEVELOPMENT**

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### **PROCEEDINGS OF THE 1ST INTERNATIONAL CONFERENCE ON ENGINEERING SOLUTIONS FOR SUSTAINABLE DEVELOPMENT (ICESSD 2019), OCTOBER 3-4, 2019, MISKOLC, HUNGARY**

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*CRC Press* The first International Conference on Engineering Solutions and Sustainable Development which is organized by the University of Miskolc, Hungary is a significant and timely initiative creating the capacity of engineering students, educators, practicing engineers and industries to demonstrate values, problem solving skills, knowledge, and attitude that are required to apply the principles of sustainable development throughout their professional career. The aim of the ICESSD conference was creating an interdisciplinary platform for researchers and practitioners to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Technical and Environmental Science. The conference covers the following topics: Process Engineering, Modelling and Optimisation Sustainable and Renewable Energy and Energy Engineering Waste Management and Reverse Logistics Environmental Management and Ecodesign Circular Economy and Life Cycle Approaches Smart Manufacturing and Smart Buildings Innovation and Efficiency Earth Science Academics, scientists, researchers and professionals from different countries and continents have contributed to this book.

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## **CIVIL SOCIETY, RHETORIC OF RESISTANCE, AND TRANSATLANTIC TRADE**

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*Springer* This book investigates the politics of transatlantic trade, specifically the Transatlantic Trade and Investment Partnership negotiations. Using a novel approach, the authors analyze the rhetorical choices made by opponents and supporters of an agreement, and the logical behind their arguments. Opponents used emotive frames and strategically chosen issues to increase public opposition to the negotiations; supporters countered, but also accommodated, parts of opponents' rhetoric in hopes of quelling discontent. The study also highlights the resulting changes to EU trade policy, thus contributing to the literatures on trade policy, politicization, and rhetorical analysis.

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## **GLOBAL NOMADS AND EXTREME MOBILITIES**

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*Routledge* Presenting a ground-breaking study of the emerging phenomenon of location-independence, this book examines the way in

which the practices of 'global nomads', who live on the road, without fixed abode, place of employment or localised circle of friends, question many of the unwritten norms and ideals that characterise settled life in societies. With the lifestyles of global nomads blurring the boundaries between travel, migration, and dwelling, *Global Nomads and Extreme Mobilities* draws on in-depth interviews with a worldwide group of location-independent travellers, together with virtual and instant ethnography and discourse analysis, to show how lives oriented around extreme forms of mobility offer researchers in migration, tourism and mobilities a unique opportunity for examining the complex subjectivities and power relations associated with multi-mobility. With close attention to the nationalistic, political, and travel-related attachments of global nomads and the ways in which their own representation and justification of their lifestyles and subjectivities constitute a power negotiation, the book examines 'global nomads' social and intimate relationships and the forms of exclusion and discrimination that they encounter, raising the question of whether they live inside or outside societies - and indeed, whether there can be any life outside societies. A re-assessment of much contemporary research in the fields of mobility, migration and tourism studies, *Global Nomads and Extreme Mobilities* will appeal to scholars across the social sciences.

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## **IAENG TRANSACTIONS ON ENGINEERING SCIENCES**

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### **SPECIAL ISSUE OF THE INTERNATIONAL MULTICONFERENCE OF ENGINEERS AND COMPUTER SCIENTISTS 2013 AND WORLD CONGRESS ON ENGINEERING 2013**

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*CRC Press* Two large international conferences on *Advances in Engineering Sciences* were held in Hong Kong, March 13-15, 2013, under the *International MultiConference of Engineers and Computer Scientists (IMECS 2013)*, and in London, U.K., 3-5 July, 2013, under the *World Congress on Engineering 2013 (WCE 2013)* respectively. *IMECS 2013* and *WCE 2013* were organize

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## **KIDS ON YOUTUBE**

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### **TECHNICAL IDENTITIES AND DIGITAL LITERACIES**

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*Routledge* The mall is so old school—these days kids are hanging out on *YouTube*, and depending on whom you ask, they're either forging the digital frontier or frittering away their childhoods in anti-intellectual solipsism. *Kids on YouTube* cuts through the hype, going behind the scenes to understand kids' everyday engagement with new media. Debunking the stereotype of the self-taught computer whiz, new media scholar and filmmaker Patricia G. Lange describes the collaborative social networks kids use to negotiate identity and develop digital literacy on the 'Tube. Her long-term ethnographic studies also cover peer-based and family-driven video-making dynamics, girl geeks, civic engagement, and representational

ethics. This book makes key contributions to new media studies, communication, science and technology studies, digital anthropology, and informal education.

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## **THE TECTONICS OF STRUCTURAL SYSTEMS**

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### **AN ARCHITECTURAL APPROACH**

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*Routledge* **The Tectonics of Structural Systems** provides an architectural approach to the theory of structural systems. The book combines: structural recommendations to follow during the architectural design of various structural systems and the tectonic treatment of structural recommendations in architecture. Written expressly for students, the book makes structures understandable and useful, providing: practical and useful knowledge about structures a design based approach to the subject of structures and a bridge in the gap between structures and the theory of design. Good architectural examples for each structural system are given in order to demonstrate that tectonics can be achieved by applying technical knowledge about structures. Over 300 illustrations visually unpack the topics being explained, making the book ideal for the visual learner.

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## **GREEN ENERGY TO SUSTAINABILITY: STRATEGIES FOR GLOBAL INDUSTRIES**

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*John Wiley & Sons* **Reviews the latest advances in biofuel manufacturing technologies and discusses the deployment of other renewable energy for transportation** Aimed at providing an interface useful to business and scientific managers, this book focuses on the key challenges that still impede the realization of the billion-ton renewable fuels vision. It places great emphasis on a global view of the topic, reviewing deployment and green energy technology in different countries across Africa, Asia, South America, the EU, and the USA. It also integrates scientific, technological, and business development perspectives to highlight the key developments that are necessary for the global replacement of fossil fuels with green energy solutions. **Green Energy to Sustainability: Strategies for Global Industries** examines the most recent developments in biofuel manufacturing technologies in light of business, financial, value chain, and supply chain concerns. It also covers the use of other renewable energy sources like solar energy for transportation and proposes a view of the challenges over the next two to five decades, and how these will deeply modify the industrial world in the third millennium. The coming of age of electric vehicles is also looked at, as is the impact of their deployment on the biomass to biofuels value chain. **Offers extensive updates on the field of green energy for global industries** Covers the structure of the energy business; chemicals and diesel from biomass; ethanol and butanol; hydrogen and methane; and more **Provides an expanded focus on the next**

generation of energy technologies Reviews the latest advances in biofuel manufacturing technologies Integrates scientific, technological and business perspectives Highlights important developments needed for replacing fossil fuels with green energy Green Energy to Sustainability: Strategies for Global Industries will appeal to academic researchers working on the production of fuels from renewable feedstocks and those working in green and sustainable chemistry, and chemical/process engineering. It is also an excellent textbook for courses in bioprocessing technology, renewable resources, green energy, and sustainable chemistry.

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## **MIGRANT COMMUNICATION ENTERPRISES**

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### **REGIMENTATION AND RESISTANCE**

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*Multilingual Matters* This unique critical sociolinguistic ethnography explores alternative migrant-regulated institutions of resistance and subversive communication technology: the locutorios or ethnic call shops. These migrant-owned businesses act as a window into their multimodal and hybrid linguistic and communicative practices, and into their own linguistic hierarchies and non-mainstream sociolinguistic orders. Here, socially displaced but technologically empowered transnational migrant populations actively find subversive ways to access information and communication technologies. As such they mobilise their own resources to successfully inhabit Catalonia, at the margins of powerful institutions. The book also focuses on the (internal) social organisation dynamics, as well as on the simultaneous fight against, and re-production of, practices and processes of social difference and social inequality among migrants themselves.

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## **MATERIALS FOR ULTRA-SUPERCRITICAL AND ADVANCED ULTRA-SUPERCRITICAL POWER PLANTS**

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*Woodhead Publishing* **Materials for Ultra-Supercritical and Advanced Ultra-Supercritical Power Plants** provides researchers in academia and industry with an essential overview of the stronger high-temperature materials required for key process components, such as membrane wall tubes, high-pressure steam piping and headers, superheater tubes, forged rotors, cast components, and bolting and blading for steam turbines in USC power plants. Advanced materials for future advanced ultra-supercritical power plants, such as superalloys, new martensitic and austenitic steels, are also addressed. Chapters on international research directions complete the volume. The transition from conventional subcritical to supercritical thermal power plants greatly increased power generation efficiency. Now the introductions of the ultra-supercritical (USC) and, in the near future, advanced ultra-supercritical (A-USC) designs are further efforts to reduce fossil fuel consumption in power plants and the associated carbon dioxide

emissions. The higher operating temperatures and pressures found in these new plant types, however, necessitate the use of advanced materials. Provides researchers in academia and industry with an authoritative and systematic overview of the stronger high-temperature materials required for both ultra-supercritical and advanced ultra-supercritical power plants Covers materials for critical components in ultra-supercritical power plants, such as boilers, rotors, and turbine blades Addresses advanced materials for future advanced ultra-supercritical power plants, such as superalloys, new martensitic and austenitic steels Includes chapters on technologies for welding technologies

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## **ROUTLEDGE HANDBOOK OF GLOBAL HEALTH SECURITY**

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*Routledge* This new Handbook presents an overview of cutting-edge research in the growing field of global health security. Over the past decade, the study of global health and its interconnection with security has become a prominent and rapidly growing field of research. Ongoing debates question whether health and security should be linked; which (if any) health issues should be treated as security threats; what should be done to address health security threats; and the positive and negative consequences of 'securitizing' health. In academic and policy terms, the health security field is a timely and dynamic one and this handbook will be the first work comprehensively to address this agenda. Bringing together the leading experts and commentators on health security issues from across the world, the volume comprises original and cutting-edge essays addressing the key issues in the field and also highlighting currently neglected avenues for future research. The book intends to provide an accessible yet sophisticated introduction to the key topics and debates and is organised into four key parts: Health Securities: the fundamental conceptual issues, historical links between health and security and the various ways of conceptualising health as a security issue Threats: those health issues which have been most frequently discussed in security terms Responses: the wide range of contemporary security-driven responses to health threats Controversies: the securitization of health, its impact on rights and justice and the potential distortion of the global health agenda This book will be of great interest to students of global health security, public health, critical security studies, and International Relations in general.

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## **THE TORTURE OF CHILDREN DURING ARMED CONFLICTS**

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### **THE ICC'S FAILURE TO PROSECUTE AND THE NEGATION OF CHILDREN'S HUMAN DIGNITY**

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*Springer Science & Business Media* This book examines selected legal complexities of the notion of torture and the issue of the proper foundation for legally characterizing certain acts as torture, especially when children

are the targeted victims of torture. ICC case law is used to highlight the International Criminal Court's reluctance in practice to prosecute as a separable offence the crime of torture as set out in one or more of the relevant provisions of the Rome Statute where children are the particularized targets as part of a common plan during armed conflict. Also addressed is the failure of the ICC to consider that the young age of the victims of torture (i.e. children) should be an aggravating factor taken into account in determining the ICC sentence for those convicted of the torture of civilians, including children, in the context of armed conflict as part of a common plan. The six UN-designated grave crimes against children (including child soldiering for State or non-State forces perpetrating mass atrocities, and sexual violence perpetrated on a systematic and widespread basis against children including child soldiers), it is argued, are also instances of the torture of children as part of a common plan such that separate charges of torture are legally supportable (along with the other charges relating to additional Rome Statute offences involved in such circumstances). Useful legal perspectives on the issue of the torture of children in its various manifestations gleaned from the case law of other international judicial forums such as the Inter-American Court of Human Rights and the ICTY are also examined.

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## **REVIEW OF THE 21ST CENTURY TRUCK PARTNERSHIP**

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### **THIRD REPORT**

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*National Academies Press* The 21st Century Truck Partnership (21CTP) works to reduce fuel consumption and emissions, increase heavy-duty vehicle safety, and support research, development, and demonstration to initiate commercially viable products and systems. This report is the third in a series of three by the National Academies of Sciences, Engineering, and Medicine that have reviewed the research and development initiatives carried out by the 21CTP. Review of the 21st Century Truck Partnership, Third Report builds on the Phase 1 and 2 reviews and reports, and also comments on changes and progress since the Phase 2 report was issued in 2012.

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## **ABSTRACTS OF PAPERS**

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### **THIRD CHEMICAL CONGRESS OF NORTH AMERICA, TORONTO, CANADA, JUNE 5-10, 1988**

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### **MIGRATION, SECURITY, AND RESISTANCE**

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### **GLOBAL AND LOCAL PERSPECTIVES**

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*Routledge* This volume explores the digitization, privatization, and spatial displacement of border security and the effects these have on political accountability and migrant rights. The governance of security and

migration is unfolding in new political spaces. Cooperation and competition among immigration officials, border guards, transnational security corporations, IT companies, local police, and international organizations has decoupled migration governance from national political structures. The chapters in the volume examine how these dynamics affect the deployment and constraint of sovereign power in the United States, Canada, the United Kingdom, and the EU. Contributors trace this process from the disciplinary perspectives of law, political science, sociology, criminology, and geography. Part I of the book explores the reconfiguration of security and migration governance through historical processes of privatization, digitization, and the rescaling of border control technologies to local and global spaces. Part II explores how migrant rights actors have responded by rescaling resistance to global and local levels. This book will be of much interest to students of critical security studies, global governance, migration studies, and international relations.

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## **THE ARSENAL OF EXCLUSION & INCLUSION**

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*Actar D, Inc.* With contributions from over fifty architects, planners, geographers, historians, and journalists, *The Arsenal* offers a wide-ranging view of the forces that shape our cities. Who gets to be where? *The Arsenal of Exclusion & Inclusion* examines some of the policies, practices, and physical artifacts that have been used by planners, policymakers, developers, real estate brokers, community activists, and other urban actors in the United States to draw, erase, or redraw the lines that divide. *The Arsenal* inventories these weapons of exclusion and inclusion, describes how they have been used, and speculates about how they might be deployed (or retired) for the sake of more open cities in which more people have access to more places. With contributions from over fifty architects, planners, geographers, historians, and journalists, *The Arsenal* offers a wide-ranging view of the forces that shape our cities. With contributions from some of the best minds in architecture, such as Julie Behrens, Bill Bishop, Lisa Brawley, Ava Bromberg, Marshall Brown, Common Room, Charles Connerly, Nathan Connolly, Margaret Crawford, Alexander D'Hooghe, Elizabeth Evitts Dickenson, David Freund, Gerald Frug, Vincent James, Jeffrey Johnson, Michael Kubo, Kaja Kuhl, Matthew Lassiter, Amy Lavine, Setha Low, Thomas Oles, Michael Piper, Wendy Plotkin, Jenny Polak, Albert Pope, Mathan Ratinam, Brian Ripel, James Rojas, Theresa Schwarz, Roger Sherman, Susan Sloan, Lior Strahilevitz, Meredith TenHoor, William TenHoor, Thumb Projects (Graphic Design), Stephen Walker and Jennifer Yoos, among others. This publication won a Graham Foundation Grant

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## **ENCYCLOPEDIA OF IRON, STEEL, AND THEIR ALLOYS (ONLINE VERSION)**

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*CRC Press* The first of many important works featured in *CRC Press' Metals*

and Alloys Encyclopedia Collection, the Encyclopedia of Iron, Steel, and Their Alloys covers all the fundamental, theoretical, and application-related aspects of the metallurgical science, engineering, and technology of iron, steel, and their alloys. This Five-Volume Set addresses topics such as extractive metallurgy, powder metallurgy and processing, physical metallurgy, production engineering, corrosion engineering, thermal processing, metalworking, welding, iron- and steelmaking, heat treating, rolling, casting, hot and cold forming, surface finishing and coating, crystallography, metallography, computational metallurgy, metal-matrix composites, intermetallics, nano- and micro-structured metals and alloys, nano- and micro-alloying effects, special steels, and mining. A valuable reference for materials scientists and engineers, chemists, manufacturers, miners, researchers, and students, this must-have encyclopedia: Provides extensive coverage of properties and recommended practices Includes a wealth of helpful charts, nomograms, and figures Contains cross referencing for quick and easy search Each entry is written by a subject-matter expert and reviewed by an international panel of renowned researchers from academia, government, and industry. Also Available Online This Taylor & Francis encyclopedia is also available through online subscription, offering a variety of extra benefits for researchers, students, and librarians, including: Citation tracking and alerts Active reference linking Saved searches and marked lists HTML and PDF format options Contact Taylor and Francis for more information or to inquire about subscription options and print/online combination packages. US: (Tel) 1.888.318.2367; (E-mail) [e-reference@taylorandfrancis.com](mailto:e-reference@taylorandfrancis.com) International: (Tel) +44 (0) 20 7017 6062; (E-mail) [online.sales@tandf.co.uk](mailto:online.sales@tandf.co.uk)

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## **100 QUESTIONS AND ANSWERS FOR JOB INTERVIEW OFFSHORE DRILLING PLATFORMS**

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*Petrogav International* This book offers you a brief, but very involved look into the operations in the drilling of an oil & gas wells that will help you to be prepared for job interview at oil & gas companies. From start to finish, you'll see a general prognosis of the drilling process. If you are new to the oil & gas industry, you'll enjoy having a leg up with the knowledge of these processes. If you are a seasoned oil & gas person, you'll enjoy reading what you may or may not know in these pages. This course provides a non-technical overview of the phases, operations and terminology used on offshore drilling platforms. It is intended also for non-drilling personnel who work in the offshore drilling, exploration and production industry. This includes marine and logistics personnel, accounting, administrative and support staff, environmental professionals, etc. No prior experience or knowledge of drilling operations is required. This course will provide participants a better understanding of the issues faced in all aspects of drilling operations, with a particular focus on the unique aspects of offshore operations.