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EFRAIN MATHEWS

The Cognitive Electrophysiology of Mind and Brain Springer Nature

This book discusses new trends in nanotechnology. It covers a wide range of topics starting from applications of nanomaterials in perovskite solar cells, pharmacy, and dentistry to self-assembled growth of GaN nanostructures on flexible metal foils by laser molecular beam epitaxy. It also includes other interesting topics such as advancement in carbon nanotubes; processing techniques, purification and industrial applications, metal di-chalcogenides for waste water treatment and recent advancement in nanostructured-based electrochemical genosensors for pathogen detection and many more. The book will be of great interest to researchers, professionals and students working in the areas of nanomaterials and nanotechnology. *The Indigenous World 2013* Springer Science & Business Media
 This book aims to provide an international forum for scholarly researchers, practitioners and academic communities to explore the role of

information and communication technologies and its applications in technical and scholarly development. The conference attracted a total of 464 submissions, of which 152 submissions (including 4 poster papers) have been selected after a double-blind review process. Academic pioneering researchers, scientists, industrial engineers and students will find this series useful to gain insight into the current research and next-generation information science and communication technologies. This book discusses the aspects of communication, data science, ambient intelligence, networking, computing, security and Internet of things, from classical to intelligent scope. The authors hope that readers find the volume interesting and valuable; it gathers chapters addressing state-of-the-art intelligent methods and techniques for solving real-world problems along with a vision of the future research.

Design for Tomorrow—Volume 1 W H Freeman & Company

North-East India, comprising the seven contiguous states around Assam, the principal state of the region, is a relatively unknown, yet very fascinating region. The forest clad peripheral mountains, home to indigenous peoples

like the Nagas, Mizos and the Khasis, the densely populated Brahmaputra valley with its lush green tea gardens and the golden rice fields, the moderately populated hill regions and plateaus, and the sparsely inhabited Himalayas, form a unique mosaic of natural and cultural landscapes and human interactions, with unparalleled diversity. The book provides a glimpse into the region's past and gives a comprehensive picture of its physical environment, people, resources and its economy. The physical environment takes into account not only the structural base of the region, its physical characteristics and natural vegetation but also offers an impression of the region's biodiversity and the measures undertaken to preserve it. The people of the region, especially the indigenous population, inhabiting contrasting environments and speaking a variety of regional and local dialects, have received special attention, bringing into focus the role of migration that has influenced the traditional societies, for centuries. The book acquaints the readers with spatial distribution, life style and culture of the indigenous people, outlining the unique features of each tribe. The economy of the region, depending originally on primitive farming and cottage industries, like silkworm rearing, but now greatly transformed with the emergence of modern industries, power resources and expanding trade, is reviewed based on authentic data and actual field observations. The epilogue, the last chapter in the book, summarizes the authors' perception of the region and its future.

Developing Academics Springer
The Brahmaputra River represents nearly 30% of India's water resources potential and 41% of its total

hydropower. No sustainable future for this underdeveloped region can occur without a plan combining social, political, economic, cultural, and legal considerations with scientific paradigms. This book pools the talent, knowledge and experience of a wide range of water resource professionals to provide an exhaustive study of the Brahmaputra River basin, present and future.

The Indigenous World 2015 Taylor & Francis

Remediation of groundwater is complex and often challenging. But the cost of pump and treat technology, coupled with the dismal results achieved, has paved the way for newer, better technologies to be developed. Among these techniques is permeable reactive barrier (PRB) technology, which allows groundwater to pass through a buried porous barrier that either captures the contaminants or breaks them down. And although this approach is gaining popularity, there are few references available on the subject. Until now. *Permeable Reactive Barrier: Sustainable Groundwater Remediation* brings together the information required to plan, design/model, and apply a successful, cost-effective, and sustainable PRB technology. With contributions from pioneers in this area, the book covers state-of-the-art information on PRB technology. It details design criteria, predictive modeling, and application to contaminants beyond petroleum hydrocarbons, including inorganics and radionuclides. The text also examines implementation stages such as the initial feasibility assessment, laboratory treatability studies (including column studies), estimation of PRB design parameters, and development of a long-term monitoring network for the performance evaluation of the barrier. It

also outlines the predictive tools required for life cycle analysis and cost/performance assessment. A review of current PRB technology and its applications, this book includes case studies that exemplify the concepts discussed. It helps you determine when to recommend PRB, what information is needed from the site investigation to design it, and what regulatory validation is required.

Geotechnics for Natural and Engineered Sustainable Technologies Cambridge : Harvard University Press

This book showcases cutting-edge research papers from the 8th International Conference on Research into Design (ICoRD 2021) written by eminent researchers from across the world on design processes, technologies, methods and tools, and their impact on innovation, for supporting design for a connected world. The theme of ICoRD'21 has been "Design for Tomorrow". The world as we know it in our times is increasingly becoming connected. In this interconnected world, design has to address new challenges of merging the cyber and the physical, the smart and the mundane, the technology and the human. As a result, there is an increasing need for strategizing and thinking about design for a better tomorrow. The theme for ICoRD'21 serves as a provocation for the design community to think about rapid changes in the near future to usher in a better tomorrow. The papers in this book explore these themes, and their key focus is design for tomorrow: how are products and their development be addressed for the immediate pressing needs within a connected world? The book will be of interest to researchers, professionals and entrepreneurs working in the areas on industrial design,

manufacturing, consumer goods, and industrial management who are interested in the new and emerging methods and tools for design of new products, systems and services.

Faculty and Student Programs IWGIA

The ongoing population growth is resulting in rapid urbanization, new infrastructure development and increasing demand for the Earth's natural resources (e.g., water, oil/gas, minerals). This, together with the current climate change and increasing impact of natural hazards, imply that the engineering geology profession is called upon to respond to new challenges. It is recognized that these challenges are particularly relevant in the developing and newly industrialized regions. The idea beyond this Volume is to highlight the role of engineering geology and geological engineering in fostering sustainable use of the Earth's resources, smart urbanization and infrastructure protection from geohazards. We selected 19 contributions from across the globe (16 countries, five continents), which cover a wide spectrum of applied interdisciplinary and multidisciplinary research, from geology to engineering. By illustrating a series of practical case studies, the Volume offers a rather unique opportunity to share the experiences of engineering geologists and geological engineers who tackle complex problems working in different environmental and social settings. The specific topics addressed by the papers included in the Volume are the following: pre-design site investigations; physical and mechanical properties of engineering soils; novel, affordable sensing technologies for long-term geotechnical monitoring of engineering structures; slope stability assessments and monitoring in active open-cast

mines; control of environmental impacts and hazards posed by abandoned coal mines; assessment of and protection from geohazards (landslides, ground fracturing, coastal erosion); applications of geophysical surveying to investigate active faults and ground instability; numerical modeling of seabed deformations related to active faulting; deep geological repositories and waste disposal; aquifer assessment based on the integrated hydrogeological and geophysical investigation; use of remote sensing and GIS tools for the detection of environmental hazards and mapping of surface geology.

Pattern Recognition and Machine Intelligence Elsevier

Two award-winning modern classics from #1 New York Times bestselling author Markus Zusak! *The Book Thief* affirms the ability of books to feed the soul even in the bleakest of times in a story the New York Times described as “brilliant. . . the kind of book that can be life-changing.” It is 1939. Nazi Germany. Death has never been busier, and will become busier still. Liesel Meminger is a foster girl living outside of Munich, who scratches out a meager existence for herself by stealing when she encounters something she can’t resist—books. With the help of her accordion-playing foster father, she learns to read and shares her stolen books with her neighbors during bombing raids as well as with the Jewish man hidden in her basement. *I Am the Messenger* is a Printz Honor-winning novel and recipient of five starred reviews that tells the story of Ed Kennedy, an underage cabdriver without much of a future. His life is one of peaceful routine and incompetence until he inadvertently stops a bank robbery. That's when the first ace arrives in the mail. That's when Ed becomes the

messenger. Chosen to care, he makes his way through town helping and hurting (when necessary) until only one question remains: Who's behind Ed's mission? Discover the enormous talent that is Marcus Zusak in this extraordinary collection that showcases the intensity and heart inherent in his storytelling. *DON'T MISS BRIDGE OF CLAY, MARKUS ZUSAK'S FIRST NOVEL SINCE THE BOOK THIEF.*

Research into Design for a

Connected World Springer Nature

In over seventy articles and country reports, *The Indigenous World 2013* provides a comprehensive update on the current situation of indigenous peoples and their human rights, and reports on the most important developments in international processes of relevance to indigenous peoples during 2012. The yearbook, produced by the International Work Group for Indigenous Affairs in collaboration with indigenous and non indigenous scholars and activists, is an essential source of information and an indispensable tool for those who need to be informed about the most recent issues and developments that have affected indigenous peoples worldwide.

El Mundo Indígena 2008 International Work Group for Indigenous Aff

This book showcases cutting-edge research papers from the 7th International Conference on Research into Design (ICoRD 2019) – the largest in India in this area – written by eminent researchers from across the world on design processes, technologies, methods and tools, and their impact on innovation, for supporting design for a connected world. The theme of ICoRD'19 has been “Design for a Connected World”. While Design traditionally focused on developing products that worked on their own, an emerging trend

is to have products with a smart layer that makes them context aware and responsive, individually and collectively, through collaboration with other physical and digital objects with which these are connected. The papers in this volume explore these themes, and their key focus is connectivity: how do products and their development change in a connected world? The volume will be of interest to researchers, professionals and entrepreneurs working in the areas on industrial design, manufacturing, consumer goods, and industrial management who are interested in the use of emerging technologies such as IOT, IIOT, Digital Twins, I4.0 etc. as well as new and emerging methods and tools to design new products, systems and services.

The Brahmaputra Basin Water Resources

Knopf Books for Young Readers

Exhibiting both homogeneous and heterogeneous catalytic properties, nanocatalysts allow for rapid and selective chemical transformations, with the benefits of excellent product yield and ease of catalyst separation and recovery. This book reviews the catalytic performance and the synthesis and characterization of nanocatalysts, examining the current state of the art and pointing the way towards new avenues of research. Moreover, the authors discuss new and emerging applications of nanocatalysts and nanocatalysis, from pharmaceuticals to fine chemicals to renewable energy to biotransformations. Nanocatalysis features contributions from leading research groups around the world. These contributions reflect a thorough review of the current literature as well as the authors' first-hand experience designing and synthesizing nanocatalysts and

developing new applications for them.

The book's nineteen chapters offer a broad perspective, covering:

Nanocatalysis for carbon-carbon and carbon-heteroatom coupling reactions

Nanocatalysis for various organic transformations in fine chemical synthesis

Nanocatalysis for oxidation, hydrogenation, and other related reactions

Nanomaterial-based photocatalysis and biocatalysis

Nanocatalysts to produce non-conventional energy such as hydrogen and biofuels

Nanocatalysts and nanobiocatalysts in the chemical industry

Readers will also learn about the latest spectroscopic and microscopy tools used in advanced characterization methods

that shed new light on nanocatalysts and nanocatalysis. Moreover, the authors

offer expert advice to help readers develop strategies to improve catalytic performance. Summarizing and

reviewing all the most important advances in nanocatalysis over the last two decades, this book explains

the many advantages of nanocatalysts over conventional homogeneous and heterogeneous catalysts, providing

the information and guidance needed for designing green, sustainable catalytic processes.

Proceedings of the 2nd International Conference on Communication, Devices and Computing Springer Nature

This book comprises the select proceedings of the International Conference on Emerging Global Trends in Engineering and Technology (EGTET 2020), held in Guwahati, India. The chapters in this book focus on the latest cleaner, greener, and efficient technologies being developed for the implementation of smart cities across the world. The broader topical sections include Smart Buildings, Infrastructures

and Disaster Management; Smart Governance; Technologies for Smart Cities, and Wireless Connectivity for Smart Cities. This book will cater to students, researchers, industry professionals, and policy making bodies interested and involved in the planning and implementation of smart city projects.

Fundamentals Of Botany Springer Nature

Biopolymer-Based Formulations: Biomedical and Food Applications presents the latest advances in the synthesis and characterization of advanced biopolymeric formulations and their state-of-the-art applications across biomedicine and food science. Sections cover the fundamentals, applications, future trends, environmental, ethical and medical considerations, and biopolymeric architectures that are organized in nano, micro and macro scales. The final section of the book focuses on novel applications and recent developments. This book is an essential resource for researchers, scientists and advanced students in biopolymer science, polymer science, polymer chemistry, polymer composites, plastics engineering, biomaterials, materials science, biomedical engineering, and more. It will also be of interest to R&D professionals, scientists and engineers across the plastics, food, biomedical and pharmaceutical industries. Provides in-depth coverage of methods for the characterization of the physical properties of biopolymeric architectures Supports a range of novel applications, including scaffolds, implant coatings, drug delivery, and nutraceutical encapsulation systems Includes the use of experimental data and mathematical modeling, thus enabling the reader to analyze and compare the properties of

different polymeric gels

Biopolymer-Based Formulations

Springer Nature

This valuable volume addresses the growing consumer demand for novel functional food products and for high-value, nutritionally rich products by focusing on the sources and applications of bioactives from food. The chapters in the book describe functional properties and discuss applications of the selected food ingredients obtained from various sources, including culinary banana, phalsa, pseudocereals, roselle calyces, asparagus, and more. Several chapters address the resurgence of interest in pseudocereals due to their excellent nutritional and biological values, gluten-free composition, and the presence of some health-promoting compounds. The book also looks at utilizing industrial byproducts for making functional and nutraceutical ingredients. The chapters on prebiotics and probiotics highlight different functional properties, and a chapter on food allergens discusses advancements in detection and management in the food manufacturing industries.

Markus Zusak: The Book Thief & I Am the Messenger International Work Group for Indegenous Aff

The two-volume set of LNCS 11941 and 11942 constitutes the refereed proceedings of the 8th International Conference on Pattern Recognition and Machine Intelligence, PReMI 2019, held in Tezpur, India, in December 2019. The 131 revised full papers presented were carefully reviewed and selected from 341 submissions. They are organized in topical sections named: Pattern Recognition; Machine Learning; Deep Learning; Soft and Evolutionary Computing; Image Processing; Medical Image Processing; Bioinformatics and

Biomedical Signal Processing; Information Retrieval; Remote Sensing; Signal and Video Processing; and Smart and Intelligent Sensors.

Theoretical Foundations of Multimedia
Springer

This book gathers high-quality papers presented at the 2nd International Conference on Communication, Devices & Computing (ICCDC 2019), held at Haldia Institute of Technology from March 14–15, 2019. The papers are divided into three main areas: communication technologies, electronics circuits & devices and computing. Written by students and researchers from around the world, they accurately reflect the global status quo.

India's Northeast Resurgent Oxford University Press

This contributed volume encompasses contributions by eminent researchers in the field of geotechnical engineering. The chapters of this book are based on the keynote and sub-theme lectures delivered at the Indian Geotechnical Conference 2017. The book provides a comprehensive overview of the current state-of-the-art research and practices in different domains of geotechnical engineering in the areas of soil dynamics, earth retaining structures, ground improvement, and geotechnical and geophysical investigations. It will serve as an ideal resource for academics, researchers, practicing professionals, and students alike.

The Indigenous World 2017 Concept Publishing Company

In over sixty articles and country reports, The Indigenous World 2017 gives a comprehensive update on the current situation of indigenous peoples and their human rights and reports on the most important developments in international processes of relevance to indigenous

peoples during 2016. The yearbook is an essential source of information and an indispensable tool for those who need to be informed about the most recent issues and developments that have impacted indigenous peoples worldwide. The Indigenous World is produced by the International Work Group for Indigenous Affairs (IWGIA) in collaboration with indigenous and non-indigenous scholars and activists.

Emerging Technologies for Smart Cities
CRC Press

This book showcases cutting-edge research papers from the 8th International Conference on Research into Design (ICoRD 2021) written by eminent researchers from across the world on design processes, technologies, methods and tools, and their impact on innovation, for supporting design for a connected world. The theme of ICoRD'21 has been "Design for Tomorrow". The world as we know it in our times is increasingly becoming connected. In this interconnected world, design has to address new challenges of merging the cyber and the physical, the smart and the mundane, the technology and the human. As a result, there is an increasing need for strategizing and thinking about design for a better tomorrow. The theme for ICoRD'21 serves as a provocation for the design community to think about rapid changes in the near future to usher in a better tomorrow. The papers in this book explore these themes, and their key focus is design for tomorrow: how are products and their development be addressed for the immediate pressing needs within a connected world? The book will be of interest to researchers, professionals and entrepreneurs working in the areas on industrial design, manufacturing, consumer goods, and

industrial management who are interested in the new and emerging methods and tools for design of new products, systems and services.

Food Bioactives CRC Press

Academics work in a highly complex world where they must build integrative capabilities and outcomes as teachers, researchers and leaders. As they progress from novice to expert their evolving identities, methodologies and strategies need to be well-attuned to their own strengths and the sectoral expectations: a process that is greatly facilitated by the guidance of leaders and specialist developers. *Developing Academics* offers guidance to developers, senior leaders and academics on the principles and practices that support high-performing and adaptive academic communities. As the first work to explore the complex nature of academic capacity building, it offers comprehensive development principles, learning theories and specific strategies to support academic growth and development. *Developing Academics* explores academic capacity from a range of perspectives, including: What makes a high-performing, well-rounded academic? How can our academics be equipped to meet the demands of their current and future roles? What are the essential characteristics of an outstanding developer and development service? How can leaders support and guide high-

performing academics who wish to excel? This book is divided into five parts. The first explores academic capacity building and the role developers, leaders and academics play. The second part offers comprehensive guidance to higher education developers, providing the theoretical grounding, methodologies and advanced professional techniques that support their service delivery. The third explores the academic development context, mapping the key capabilities that academics need to acquire as they progress from early career to senior roles across their various portfolios. The fourth explores strategies to evaluate and research the impact of higher education development on learners and their performance. In the final part, the design of higher education services and their interaction with university leaders is explored, illustrating the critical importance of building influence and impact across the university community. The positioning of higher education development as a discipline is also mapped. Developers, leaders and academics will find this handbook to be an essential resource for regular reference: full of useful insights, tips and strategies to help them increase their outcomes and impact. Readers are challenged to reflect on their own leadership and effectiveness throughout this work, as individuals and contributors to academic capacity building.