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**Polymer Adhesion, Friction, and Lubrication** - Hongbo Zeng  
2013-02-07

Specifically dedicated to polymer and biopolymer systems, Polymer Adhesion, Friction, and Lubrication guides readers to the scratch, wear, and lubrication properties of polymers and the engineering applications, from biomedical research to automotive engineering. Author Hongbo Zeng details different experimental and theoretical methods used to probe static and dynamic properties of polymer materials and biomacromolecular systems. Topics include the use of atomic force microscopy (AFM) to analyze nanotribology, polymer thin films and brushes, nanoparticles, rubber and tire technology, synovial joint lubrication, adhesion in paper products, bioMEMS, and electrorheological fluids.

*Nitrification* - Bess B. Ward 2011-03-25

A full review of the latest research findings on microbes involved in conventional aerobic nitrification, anaerobic ammonia oxidation, and related processes. • Examines the four principal groups of nitrifying microbes including conventional aerobic bacterial ammonia oxidizers,

recently discovered aerobic archaeal ammonia oxidizers, anaerobic ammonia-oxidizing planctomycetes, and nitrite-oxidizing bacteria. • Provides current information on the ecology, phylogeny, biochemistry, molecular biology, and genomics of each group of microbes. • Discusses the latest industrial applications of nitrification and anammox processes, and explores the ecology of nitrification in marine, freshwater, soil, and wastewater environments.

*Fueling Culture* - Jennifer Wenzel 2017-02-01

How has our relation to energy changed over time? What differences do particular energy sources make to human values, politics, and imagination? How have transitions from one energy source to another—from wood to coal, or from oil to solar to whatever comes next—transformed culture and society? What are the implications of uneven access to energy in the past, present, and future? Which concepts and theories clarify our relation to energy, and which just get in the way? Fueling Culture offers a compendium of keywords written by scholars and practitioners from around the world and across the humanities and social sciences. These keywords offer new ways of

thinking about energy as both the source and the limit of how we inhabit culture, with the aim of opening up new ways of understanding the seemingly irresolvable contradictions of dependence upon unsustainable energy forms. *Fueling Culture* brings together writing that is risk-taking and interdisciplinary, drawing on insights from literary and cultural studies, environmental history and ecocriticism, political economy and political ecology, postcolonial and globalization studies, and materialisms old and new. Keywords in this volume include: Aboriginal, Accumulation, Addiction, Affect, America, Animal, Anthropocene, Architecture, Arctic, Automobile, Boom, Canada, Catastrophe, Change, Charcoal, China, Coal, Community, Corporation, Crisis, Dams, Demand, Detritus, Disaster, Ecology, Electricity, Embodiment, Ethics, Evolution, Exhaust, Fallout, Fiction, Fracking, Future, Gender, Green, Grids, Guilt, Identity, Image, Infrastructure, Innervation, Kerosene, Lebenskraft, Limits, Media, Metabolism, Middle East, Nature, Necessity, Networks, Nigeria, Nuclear, Petroviolence, Photography, Pipelines, Plastics, Renewable, Resilience, Risk, Roads, Rubber, Rural, Russia, Servers, Shame, Solar, Spill, Spiritual, Statistics, Surveillance, Sustainability, Tallow, Texas, Textiles, Utopia, Venezuela, Whaling, Wood, Work For a full list of keywords in and contributors to this volume, please go to: <http://ow.ly/4mZZxV>

**Understanding Indias New Approach to Spatial Planning and Development** - Sanjeev Vidyarthi 2017

Is there a political and economic struggle when it comes to spatial development and planning of India's urban and rural landscapes? This book brings together the ongoing shift in India's approach to spatial planning and development in line with changes in the country's polity. Taking the regime change in the early 1990s as a point of departure, it focuses on transformations in the distinct, but interrelated, domains of infrastructure finance and development, local spatial planning practice, and on-the-ground empirical outcomes. Instead of covering large cities- such as Kolkata, Mumbai, and Delhi-that dominate the discourse on urban India, the authors pay close attention to fine-grained aspects of the shift away from the well-theorized Nehruvian planning and development model. The innovative approach helps illustrate how the tensions

between democratic and market-oriented impulses shape India's existing and emergent settlements in a manner that could be uneven and largely invisible while drawing out useful insights for scholars and practitioners working in the field.

**The Future of Transdisciplinary Design** - Lucienne Blessing 2016-02-13

This book presents the state-of-the-art research in the field of transdisciplinary design, and highlights the challenges and issues from the perspectives of processes, people and products in transdisciplinary product design and development. It collates research papers resulting from the 'Workshop on the Future of Transdisciplinary Design' written by leading researchers in engineering design and product development. The papers provide examples and case studies from existing practices, as well as future perspectives towards the development of the complex and ever-changing domains of engineering design and product development, with an emphasis on transdisciplinarity. 'The Future of Transdisciplinary Design' contains a selection of research papers in the following areas related to transdisciplinary design: -Approaches -Tools and methods - Management and collaboration -Distributed and culturally diverse teams -Modeling, representing and managing information -Education and training A transdisciplinary design process is a design process involving the integrated use of knowledge, methods and tools from various disciplines. Design of product/services increasingly requires cross-disciplinary collaboration, and integration of specialized knowledge from different disciplines is necessary to tackle complex and large scale design problems. This book provides a valuable reference to researchers, professionals and PhD students in the field of engineering design and product development. Design practitioners and those involved in product development in the manufacturing industry will equally benefit from the research presented as well as future advances in this research.

**Towards Industry 4.0 – Current Challenges in Information Systems** - Marcin Hernes 2020-03-10

This book discusses various aspects of Industry 4.0 from the perspective of information system evolution. Industry 4.0 refers to a new phase in the

industrial revolution that relies heavily on interconnectivity, automation, machine learning, real-time data, the Internet of Things and blockchain technology. The interdisciplinary book addresses a number of topics related to modern information technologies, and presents innovative concepts, methods, models and tools for the development of information

systems to support Industry 4.0. Focusing on artificial intelligence, collective knowledge processing and blockchain technology, it appeals to a wide readership, including researchers, students, business managers and professionals, software developers, as well as IT and management specialists.