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Among classical subjects are kinetics, catalysis, reaction engineering, transport processes, separations, polymers, thermodynamics and process control. Innovative topics include - but are not limited ...

Cambridge Series in Chemical Engineering

[1] For additional calculation procedures in chemical engineering, please refer to the following sections in this handbook: Sec. 3, Mechanical Engineering; Sec. 4, Electrical Engineering; Sec. 6, ...

Section 5: CHEMICAL AND PROCESS PLANT ENGINEERING

LabRoots and the Cancer Research and Oncology Planning Committee are pleased to announce the 8th Annual Cancer Research and Oncology Virtual Event! This two day event will take place on October 7th ...

Cancer Research & Oncology 2020

The enhanced disease severity observed in patients undergoing a secondary infection with a virus belonging to a different serotype has been associated with the phenomenon of antibody-dependent ...

Prospects for a dengue virus vaccine

W.A. Gruver - intelligent robotics, machine sensing and sensor-based control with applications to service robots, rehabilitation engineering, and manufacturing automation K.K. Gupta - computer vision, ...

School of Engineering Science

I graduated with a BSc in Physics and Mathematics (1985) from the University of Mumbai, a BE. in Electronics and Communications Engineering (1988) from the Indian Institute of Science, Bangalore and a ...

Professor Merlyne De Souza

Swaminathan, Vikhram V. Gibson, Larry R. Pinti, Marie Prakash, Shaurya Bohn, Paul W. and Shannon, Mark A. 2012. Nanotechnology for Sustainable Development. p. 17.

Essentials of Micro- and Nanofluidics

All submitted abstracts will be reviewed and decisions regarding acceptance will be made as abstracts are received. You will be notified within one week of receipt about acceptance. Further details ...

Designed for introductory undergraduate courses in fluid mechanics for chemical engineers, this stand-alone textbook illustrates the fundamental concepts and analytical strategies in a rigorous and systematic, yet mathematically accessible manner. Using both traditional and novel applications, it examines key topics such as viscous stresses, surface tension, and the microscopic analysis of incompressible flows which enables students to understand what is important physically in a novel situation and how to use such insights in modeling. The many modern worked examples and end-of-chapter problems provide calculation practice, build confidence in analyzing physical systems, and help develop engineering judgment. The book also features a self-contained summary of the mathematics needed to understand vectors and tensors, and explains solution methods for partial differential equations. Including a full solutions manual for instructors available at www.cambridge.org/deen, this balanced textbook is the ideal resource for a one-semester course.

Fundamental Principles of Heat Transfer introduces the fundamental concepts of heat transfer: conduction, convection, and radiation. It presents theoretical developments and example and design problems and illustrates the practical applications of fundamental principles. The chapters in this book cover various topics such as one-dimensional and transient heat conduction, energy and turbulent transport, forced convection, thermal radiation, and radiant energy exchange. There are example problems and solutions at the end of every chapter dealing with design problems. This book is a valuable introductory course in heat transfer for engineering students.

The 2014â€"2015 Ebola epidemic in western Africa was the longest and most deadly Ebola epidemic in history, resulting in 28,616 cases and 11,310 deaths in Guinea, Liberia, and Sierra Leone. The Ebola virus has been known since 1976, when two separate outbreaks were identified in the Democratic Republic of Congo (then Zaire) and South Sudan (then Sudan). However, because all Ebola outbreaks prior to that in West Africa in 2014â€"2015 were relatively isolated and of short duration, little was known about how to best manage patients to improve survival, and there were no approved therapeutics or vaccines. When the World Health Organization declared the 2014-2015 epidemic a public health emergency of international concern in August 2014, several teams began conducting formal clinical trials in the Ebola affected countries during the outbreak. Integrating Clinical Research into Epidemic Response: The Ebola Experience assesses the value of the clinical trials held during the 2014â€"2015 epidemic and makes recommendations about how the conduct of trials could be improved in the context of a future international emerging or re-emerging infectious disease events.

In the next 10 to 15 years, chemical engineers have the potential to affect every aspect of American life and promote the scientific and industrial leadership of the United States. *Frontiers in Chemical Engineering* explores the opportunities available and gives a blueprint for turning a multitude of promising visions into realities. It also examines the likely changes in how chemical engineers will be educated and take their place in the profession, and presents new research opportunities.

Owing to new physical, technological, and device concepts of low-dimensionalelectronic systems, the physics and fabrication of quasi-zero, one- and two-dimensional systems are rapidly growing fields. The contributions presented in this volume cover results of nanostructure fabrication including recently developed techniques, for example, tunneling probe techniques and molecular beam epitaxy, quantum transport including the integer and fractional quantum Hall effect, optical and transport studies of the two-dimensional Wigner solid, phonon studies of low-dimensional systems, and Si/SiGe heterostructures and superlattices. To the readers new in the field this volume gives a comprehensive introduction and for the experts it is an update of their knowledge and a great help for decisions about future research activities.

So far religion has been seen as cause for dramatic developments in the history of cities, it has contributed to the monumentalisation of centres and or has given importance to ex-centric places. Very recently, anthropologists have been discovering religion in the contemporary global city. But still awaiting historical investigation is the specific urban character of religious ideas, practices and institutions and the role of urban space shaping this very 'religion' in the course of history. The time-span from the Hellenistic age to Late Antiquity was crucial in the establishment of concepts and institutions of 'religion' and witnessed extended waves of urbanisation, Rome being central to this. In addressing this problem, this book fills a significant gap in the scholarship on urban religion across time. Taking seriously the proposition that space is condition, medium and outcome of social relations, the development of 'urban religion' in lived urban space and urban culture or urbanity offers a lens onto processes of religious change that have been neglected for the history of religion and for the study of urbanism. The key thesis is that city-space engineered the major changes that revolutionised religions. »This stimulating book makes use of archaeology and history to address religion as an essential component of urban life in both the past and the present. -With a strong basis in the ancient Mediterranean as well as an insightful view of modern urban life, R pke emphasizes that the practice and performance of religion at the everyday level is as essential in the creation of an urban ethos as the grand temples and institutions promulgated by the elite.« Monica L. Smith, author of *Cities: The First 6,000 Years* »J rg R pke offers a characteristically original and learned series of reflections on some of the many ways in which the history of religions and the history of cities might be entangled. *Urban Religion* offers no single overarching thesis, but it is consistently thought-provoking and suggests many intriguing lines of investigation for the future.« Greg Woolf, Institute of Classical Studies, London

Recent advances in genomic studies have stimulated synergetic research and development in many cross-disciplinary areas. Processing the vast genomic data, especially the recent large-scale microarray gene expression data, to reveal the complex biological functionality, represents enormous challenges to signal processing and statistics. This perspective naturally leads to a new field, genomic signal processing (GSP), which studies the processing of genomic signals by integrating the theory of signal processing and statistics. Written by an international, interdisciplinary team of authors, this invaluable edited volume is accessible to students just entering this emergent field, and to researchers, both in academia and in industry, in the fields of molecular biology, engineering, statistics, and signal processing. The book provides tutorial-level overviews and addresses the specific needs of genomic signal processing students and researchers as a reference book. The book aims to address current genomic challenges by exploiting potential synergies between genomics, signal processing, and statistics, with special emphasis on signal processing and statistical tools for structural and functional understanding of genomic data. The first part of this book provides a brief history of genomic research and a background introduction from both biological and signal-processing/statistical perspectives, so that readers can easily follow the material presented in the rest of the book. In what follows, overviews of state-of-the-art techniques are provided. We start with a chapter on sequence analysis, and follow with chapters on feature selection, classification, and clustering of microarray data. We then discuss the modeling, analysis, and simulation of biological regulatory networks, especially gene regulatory networks based on Boolean and Bayesian approaches. Visualization and compression of gene data, and supercomputer implementation of genomic signal processing systems are also treated. Finally, we discuss systems biology and medical applications of genomic research as well as the future trends in genomic signal processing and statistics research.

This book aims to face particles in flows from many different, but essentially interconnected sides and points of view. Thus the selection of authors and topics represented in the chapters, ranges from deep mathematical analysis of the associated models, through the techniques of their numerical solution, towards real applications and physical implications. The scope and structure of the book as well as the selection of authors was motivated by the very successful summer course and workshop "Particles in Flows" that was held in Prague in the August of 2014. This meeting revealed the need for a book dealing with this specific and challenging multidisciplinary subject, i.e. particles in industrial, environmental and biomedical flows and the combination of fluid mechanics, solid body mechanics with various aspects of specific applications.

Achievements and progress in genome mapping and the genomics of microbes supersede by far those for higher plants and animals, in part due to their enormous economic implication but also smaller genome size. In the post-genomic era, whole genome sequences of animal-associated microbes are providing clues to depicting the genetic basis of the complex host-pathogen relationships and the evolution of parasitism; and to improving methods of controlling pathogens. This volume focuses on a globally important group of intracellular prokaryotic pathogens which affect livestock animals. These include *Brucella*, *Mycobacterium*, *Anaplasma* and *Ehrlichia*, as well as the protozoan pathogens *Cryptosporidium* and *Theileria*, for which genome sequence data is available. Insights from comparative genomics of the microbes described provide clues to the adaptation involved in host-microbe interactions, as well as resources potentially useful for application in future research and product development.

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