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In the next 10 to 15 years, chemical

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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.

*Transport Processes in Chemically Reacting Flow Systems* discusses the role, in chemically reacting flow systems, of transport processes—particularly the transport of momentum, energy, and (chemical species) mass in fluids (gases and liquids). The principles developed and often illustrated here for combustion systems are important not only for the rational design and development of engineering equipment

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(e.g., chemical reactors, heat exchangers, mass exchangers) but also for scientific research involving coupled transport processes and chemical reaction in flow systems. The book begins with an introduction to transport processes in chemically reactive systems. Separate chapters cover momentum, energy, and mass transport. These chapters develop, state, and exploit useful quantitative "analogies" between these transport phenomena, including interrelationships that remain valid even in the presence of homogeneous or heterogeneous chemical reactions. A separate chapter covers the use of transport theory in the systematization and generalization of experimental data on chemically reacting systems. The principles and methods discussed are then applied to the preliminary design of a heat exchanger for extracting power from the products of combustion in a stationary (fossil-fuel-fired)

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power plant. The book has been written in such a way as to be accessible to students and practicing scientists whose background has until now been confined to physical chemistry, classical physics, and/or applied mathematics.

This multi-disciplinary book presents the most recent advances in exergy, energy, and environmental issues. Volume 2 focuses on applications and covers current problems, future needs, and prospects in the area of energy and environment from researchers worldwide. Based on selected lectures from the Seventh International Exergy, Energy and Environmental Symposium (IEEES7-2015) and complemented by further invited contributions, this comprehensive set of contributions promote the exchange of new ideas and techniques in energy conversion and conservation in order to exchange best practices in

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"energetic efficiency". Applications are included that apply to the green transportation and sustainable mobility sectors, especially regarding the development of sustainable technologies for thermal comforts and green transportation vehicles. Furthermore, contributions on renewable and sustainable energy sources, strategies for energy production, and the carbon-free society constitute an important part of this book. Exergy for Better Environment and Sustainability, Volume 2 will appeal to researchers, students, and professionals within engineering and the renewable energy fields.

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

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**D**oan 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.

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

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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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With a detailed analysis of the mass transport through membrane layers and its effect on different separation processes, this book provides a comprehensive look at the theoretical and practical aspects of membrane transport properties and functions. Basic equations for every membrane are provided to predict the mass transfer rate, the concentration distribution, the convective velocity, the separation efficiency, and the effect of chemical or biochemical reaction taking into account the heterogeneity of the membrane layer to help better understand the mechanisms of the separation processes. The reader will be able to describe membrane separation processes and the membrane reactors as well as choose the most suitable membrane structure for separation and for membrane reactor. Containing detailed discussion of the latest results in transport processes and separation processes, this book is essential for chemistry

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students and practitioners of chemical engineering and process engineering. Detailed survey of the theoretical and practical aspects of every membrane process with specific equations Practical examples discussed in detail with clear steps Will assist in planning and preparation of more efficient membrane structure separation

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

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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.

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

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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

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Insightful view of modern urban life, R ü 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 ö rg R ü 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

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