



Due to the increasing importance of multi-scale computation in engineering, stimulated by the dramatic development of computer technology and understanding of multi-scale structures, an issue on multi-scale simulation and design--or so-called virtual process engineering--is now edited. ACE published an issue with title of multi-scale analysis in 2005 (vol 35). The intention of the present volume is different, trying to elucidate the bottlenecks and to identify the correct directions for the coming years from the process and product engineering point of view. Both fundamental and practical contributions will be provided from academia and industry. Updates and informs the reader on the latest research findings using original reviews Written by leading industry experts and scholars Reviews and analyzes developments in the field

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??Holt,Rinchart and Winston 1983??????. -- ??: Modern digital and analog communication systems/B. P. Lathi

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Cited in BCL3 and Sheehy . Formerly Books in series in the United States . The editor's solicitude expressed in the preface Bowker...has consistently recognized those areas in which we can assist to make the work of librarians...easier. It is because of this concern that we decided to publish the 1

An important challenge brought to chemical engineering by new emerging technologies, in particular then by nano and bio technologies, is to deal with complex systems that cannot be dealt with and cannot be fully understood on a single scale. This volume of Advances in Chemical Engineering provides a framework for thermodynamic and kinetic modeling of complex chemical systems. Updates and informs the reader on the latest research findings using original reviews Written by leading industry experts and scholars Reviews and analyzes developments in the field

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Focusing Mesoscales of Multiscale Problems in Chemical Engineering, a volume in the Advances in Chemical Engineering series provides readers with the personal views of recognized authorities who present assessments of the state-of-the-art in the field and help readers develop an understanding of its further evolution. Subjects covered in the book are not limited to the classical chemical engineering disciplines. Contributions connecting chemical engineering to related scientific fields, either providing a fundamental basis or introducing new concepts and tools, are encouraged. This volume aims to create a balance between well developed areas such as process industry, transformation of materials, energy, and environmental issues, and areas where applications of chemical engineering are more recent or emerging. Contains reviews by leading authorities in their respective areas Provides up-to-date reviews of the latest techniques in the modeling of catalytic processes Includes a broad mix of US and European authors, as well as academic/industrial/research institute perspectives Provides discussions on the connections between computation and experimental methods

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