

Innovations in Chemical Physics and Mesoscopy

MATHEMATICAL MODELING and Numerical Methods in Chemical Physics and Mechanics



Ali V. Aliev, DSc, and Olga V. Mishchenkova, PhD

Alexey M. Lipanov, DSc, *Editor*

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Mathematical Modeling and Numerical Methods in Chemical Physics and Mechanics Ali V. Aliev, Olga V. Mishchenkova, Alexey M. Lipanov, 2016-04-27 The use of mathematical modeling in engineering allows for a significant reduction of material costs associated with design production and operation of technical objects but it is important for an engineer to use the available computational approaches in modeling correctly Taking into account the level of modern computer technology this new vo *Applied Mathematical Models and Experimental Approaches in Chemical Science*

Vladimir Ivanovitch Kodolov, Mikhail A. Korepanov, 2016-11-03 This new book focuses on nanomaterial development as well as investigations of combustion and explosion processes It presents valuable information on the modeling of processes and on quantum chemical calculations and leading edge research from around the world in this dynamic field focusing on concepts above formal experimental techniques and theoretical methods of chemical physics for micro and nanotechnologies Also presented are non linear kinetic appearances and their possible applications Mathematical Linguistics Andras Kornai, 2007-12-16 Mathematical Linguistics introduces the mathematical foundations of linguistics to computer scientists engineers and mathematicians interested in natural language processing The book presents linguistics as a cumulative body of knowledge from the ground up no prior knowledge of linguistics is assumed Previous textbooks in this area concentrate on syntax and semantics this comprehensive volume covers an extremely rich array of topics also including phonology and morphology probabilistic approaches complexity learnability and the analysis of speech and handwriting As the first textbook of its kind this book is useful for those in information science information retrieval and extraction search engines and in natural language technologies speech recognition optical character recognition HCI Exercises suitable for the advanced reader are included as well as suggestions for further reading and an extensive bibliography

Innovative Numerical Approaches for Multi-Field and Multi-Scale Problems Kerstin Weinberg, Anna Pandolfi, 2016-06-24 This book provides readers with a detailed insight into diverse and exciting recent developments in computational solid mechanics documenting new perspectives and horizons The topics addressed cover a wide range of current research from computational materials modeling including crystal plasticity micro structured materials and biomaterials to multi scale simulations of multi physics phenomena Particular emphasis is placed on pioneering discretization methods for the solution of coupled non linear problems at different length scales The book written by leading experts reflects the remarkable advances that have been made in the field over the past decade and more largely due to the development of a sound mathematical background and efficient computational strategies The contents build upon the 2014 IUTAM symposium celebrating the 60th birthday of Professor Michael Ortiz to whom this book is dedicated His work has long been recognized as pioneering and is a continuing source of inspiration for many researchers It is hoped that by providing a taste of the field of computational mechanics the book will promote its popularity among the mechanics and physics communities *Computational Multiscale Modeling of*

Multiphase Nanosystems Alexander V. Vakhrushev, 2017-10-10 Computational Multiscale Modeling of Multiphase Nanosystems Theory and Applications presents a systematic description of the theory of multiscale modeling of nanotechnology applications in various fields of science and technology The problems of computing nanoscale systems at different structural scales are defined and algorithms are given for their numerical solutions by the quantum continuum mechanics molecular dynamics and mesodynamics methods Emphasis is given to the processes of the formation movement and interaction of nanoparticles the formation of nanocomposites and the processes accompanying the application of nanocomposites The book concentrates on different types of nanosystems solid liquid gaseous and multi phase consisting of various elements interacting with each other and with other elements of the nanosystem and with the environment The book includes a large number of examples of numerical modeling of nanosystems The valuable information presented here will be useful to engineers researchers and postgraduate students engaged in the design and research in the field of nanotechnology

Advanced Problem in Mechanics II D. A. Indeitsev, A. M. Krivtsov, 2022-03-19 This book focuses on original theories and approaches in the field of mechanics It reports on both theoretical and applied researches with a special emphasis on problems and solutions at the interfaces of mechanics and other research areas The respective chapters highlight cutting edge works fostering development in fields such as micro and nanomechanics material science physics of solid states molecular physics astrophysics and many others Special attention has been given to outstanding research conducted by young scientists from all over the world This book is based on the 48th edition of the international conference Advanced Problems in Mechanics which was held in 2020 in St Petersburg Russia and co organized by The Peter the Great St Petersburg Polytechnic University and the Institute for Problems in Mechanical Engineering of the Russian Academy of Sciences under the patronage of the Russian Academy of Sciences It provides researchers and graduate students with an extensive overview of the latest research and a source of inspiration for future developments and collaborations in mechanics and related fields

Nanoscience and Nanoengineering Vjacheslav B. Dement'ev, A. K. Haghi, Vladimir Ivanovitch Kodolov, 2018-12-17 This volume presents a selection of important information and discussion on the new scientific trend of chemical mesoscopics and also sheds new knowledge on the science of nanomaterials processes of nanochemistry and nanoengineering The volume explores nanomaterial development as well as investigations of processes and modeling It provides new perspectives on processes while also discussing new methods of treatment polymeric materials and different material modification including by super small quantities of metal carbon nanocomposites This volume will be a valuable resource on new trends on chemical mesoscopics nanotechnology and nanoengineering for researchers scientists professors postgraduate students and others

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Bridge Maintenance, Safety, Management, Life-Cycle Sustainability and Innovations Hiroshi Yokota, Dan M. Frangopol, 2021-04-19 Bridge Maintenance Safety Management Life Cycle Sustainability and Innovations contains lectures and papers presented at the Tenth International Conference on Bridge Maintenance Safety and Management IABMAS 2020 held in Sapporo Hokkaido Japan April 11 15 2021 This volume consists of a book of extended abstracts and a multimedia device containing the full papers of 571 contributions presented at IABMAS 2020 including the T Y Lin Lecture 9 Keynote Lectures and 561 technical papers from 40 countries The contributions presented at IABMAS 2020 deal with the state of the art as well as emerging concepts and innovative applications related to the main aspects of maintenance safety management life cycle sustainability and technological innovations of bridges Major topics include advanced bridge design construction and maintenance approaches safety reliability and risk evaluation life cycle management life cycle sustainability standardization analytical models bridge management systems service life prediction maintenance and management strategies structural health monitoring non destructive testing and field testing safety resilience robustness and redundancy durability enhancement repair and rehabilitation fatigue and corrosion extreme loads and application of information and computer technology and artificial intelligence for bridges among others This volume provides both an up to date overview of the field of bridge engineering and significant contributions to the process of making more rational decisions on maintenance safety management life cycle sustainability and technological innovations of bridges for the purpose of enhancing the welfare of society The Editors hope that these Proceedings will serve as a valuable reference to all concerned with bridge structure and infrastructure systems including engineers researchers academics and students from all areas of bridge engineering

Damage and Failure of Rock Triggered by Dynamic Disturbance Xu Chen, 2025-08-12 This open access book provides a detailed exploration of how dynamic disturbances such as those caused by blasting or seismic activity affect the damage and failure mechanisms of rocks When excavation is carried out under high stress environment the external disturbance will change the stress field of the rock which may lead to potential engineering damage such as large deformation and large displacement of the free surfaces of the engineering surrounding rock and even cause instability damage rockburst and other engineering disasters From 1960s onward the subject of progressive damage and failure of rock materials has been extensively investigated to prevent and control geological disasters and engineering accidents However the existing researches usually did not take the effects of low frequency dynamic disturbances on the mechanical properties of rock into consideration Rock mechanics researchers such as graduate students doctoral students or

academics need to understand the complex interactions between dynamic disturbances and rock integrity They require up to date knowledge of the latest research findings and models to predict rock behaviors accurately Applications of the Mathematical Sciences to Materials Science National Research Council (U.S.). Panel on Mathematical Sciences,1991

Computer Aided Innovation of New Materials J. Kihara,R. Yamamoto,M. Doyama,T. Suzuki,2012-12-02 This volume brings together the experience of specialists in the entire field of applications of Materials Science The volume contains 196 of the excellent papers presented at the conference This multidisciplinary meeting was held to bring together workers in a wide range of materials science and engineering activities who employ common analytical and experimental methods in their day to day work The results of the meeting are of worldwide interest and will help to stimulate future research and analysis in this area **Alloy Design and Process Innovations** Prashanth Konda Gokuldoss,Zhi Wang,2020-04-15 Additive

manufacturing AM is one of the manufacturing processes that warrants the attention of industrialists researchers and scientists because of its ability to produce materials with a complex shape without theoretical restrictions and with added functionalities There are several advantages to employing additive manufacturing as the primary additive manufacturing process However there exist several challenges that need to be addressed systematically A couple such issues are alloy design and process development Traditionally alloys designed for conventional cast powder metallurgical processes were fabricated using advanced AM processes This is the wrong approach considering that the alloys should be coined based on the process characteristics and meta stable nature of the process Hence we must focus on alloy design and development for AM that suits the AM processes The AM processes however improve almost every day either in terms of processing capabilities or processing conditions Hence the processing part warrants a section that is devoted to these advancements and innovations Accordingly the present Special Issue book focuses on two aspects of alloy development and process innovations Here 45 articles are presented covering different AM processes including selective laser melting electron beam melting laser cladding direct metal laser sintering ultrasonic consolidation wire arc additive manufacturing and hybrid manufacturing I believe that this Special Issue bears is vital to the field of AM and will be a valuable addition **External**

Magnetic Field Effects on Hydrothermal Treatment of Nanofluid Mohsen Sheikholeslami,Davood Domairry Ganji,2016-03-08 This book seeks to comprehensively cover recent progress in computational fluid dynamics and nonlinear science and its applications to MHD and FHD nanofluid flow and heat transfer The book will be a valuable reference source to researchers in various fields including materials science nanotechnology mathematics physics information science engineering and medicine seeing to understand the impact of external magnetic fields on the hydrothermal behavior of nanofluids in order to solve a wide variety of theoretical and practical problems Readers will gain a full understanding of the fundamentals in new numerical and analytical methods in MHD Magnetohydrodynamics Includes complete coverage of governing equations in which nanofluid is used as working fluid and where magnetic fields are applied to nanofluids A single

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