

NON-LINEAR MASS TRANSFER AND HYDRODYNAMIC STABILITY

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Non Linear Mass Transfer And Hydrodynamic Stability

Donald A. Nield, Adrian Bejan



Non Linear Mass Transfer And Hydrodynamic Stability:

Non-Linear Mass Transfer and Hydrodynamic Stability C.B. Boyadjiev, V.N. Babak, 2000-08-16 Surveyed in this book are the kinetics of non linear mass transfer and its effects on hydrodynamic stability in systems with intensive interphase mass transfer in electrochemical systems with high current density and in chemically reacting systems In Part 1 the non linear mass transfer as a result of an intensive interphase mass transfer in the gas liquid solid surface gas liquid and liquid liquid systems is considered in the diffusion boundary layer approximation as well as in flat channel taking the longitudinal diffusion into account The influence of the direction of the intensive interphase mass transfer on heat transfer and multi component mass transfer is illustrated Part 2 discusses non linear mass transfer in electrochemical systems with high current density using the examples of the anode dissolving of metals in the electrolyte flow and the electro separation of metals out of concentrated solutions The theory of the measured electrochemical treatment of metals and alloys which is a method of wide practical use has been elaborated on this basis In Part 3 the non linear mass transfer in chemically reacting systems is considered in the cases of non linearity of the equations of the chemical reaction s kinetics and intensive interphase mass transfer or thermo capillary effect due to chemical reactions On this basis the mechanisms and the macro kinetics of the chemical transformations in the gas liquid systems are discussed Part 4 is dedicated to the chemical reaction kinetics in stationary two phase systems at an arbitrary contact time between phases In Part 5 the effects of concentration gradients are considered in the approximations of the linear theory of the hydrodynamic stability of almost parallel flows In systems with intensive interphase mass transfer the Marangoni effect could also be observed beside the effect of non linear mass transfer A comparative analysis of both effects is made in this book *Hydrodynamic Stability of Boundary-layer Flows in the Presence of Mass Transfer* Jordan Atanassov Halatchev, 2000 This thesis presents studies of the non linear mass transfer kinetics and a linear analysis of the hydrodynamic stability of systems under conditions of intense interfacial mass transfer *Theoretical Chemical Engineering* Christo Boyadjiev, 2010-10-20 The role of theory in science was formulated very brilliantly by Max Planck Experimenters are the striking force of science The experiment is a question which science puts to nature The measurement is the registration of nature s answer But before the question is put to nature it must be formulated Before the measurement result is used it must be explained i e the answer must be understood correctly These two problems are obligations of the theoreticians Chemical engineering is an experimental science but theory permits us to formulate correct experimental conditions and to understand correctly the experimental results The theoretical methods of chemical engineering for modeling and simulation of industrial processes are surveyed in this book Theoretical chemical engineering solves the problems that spring up from the necessity for a quantitative description of the processes in the chemical industry They are quite different at the different stages of the quantitative description i e a wide circle of theoretical methods are required for their solutions Modeling and simulation are a united approach to obtain a quantitative

description of the processes and systems in chemical engineering and chemical technology which is necessary to clarify the process mechanism or for optimal process design process control and plant renovation Modeling is the creation of the mathematical model i.e. construction of the mathematical description on the basis of the process mechanism calculation of the model parameters using experimental data and statistical analysis of the model adequacy *Modeling of Column Apparatus Processes* Christo Boyadjiev, Maria Doichinova, Boyan Boyadjiev, Petya Popova-Krumova, 2018-04-27 This new edition includes brand new developments in the modeling of processes in the column apparatuses It analyzes the radial velocity component and axial variation in the axial velocity in the column These models are described in five new chapters The book presents models of chemical and interphase mass transfer processes in industrial column apparatuses using convection diffusion and average concentration models It also introduces average concentration models for quantitative analysis which use the average values of the velocity and concentration over the cross sectional area of the column The new models are used to analyze a broad range of processes simple and complex chemical reactions physical and chemical absorption physical and chemical adsorption catalytic reactions in the cases of physical and chemical adsorption mechanism and make it possible to model sulfur dioxide gas purification processes **Process Intensification** Mirko

Skiborowski, Andrzej Górak, 2022-06-06 Process intensification aims for increasing efficiency and sustainability of biochemical production processes This book presents strategies for the intensification of fluid separation processes such as reactive distillation reactive absorption and membrane assisted separations The authors discuss theoretical fundamentals model development methods for synthesis and the design as well as scale up and industrial process applications

Dynamic Process Modeling, 2013-10-02 Inspired by the leading authority in the field the Centre for Process Systems Engineering at Imperial College London this book includes theoretical developments algorithms methodologies and tools in process systems engineering and applications from the chemical energy molecular biomedical and other areas It spans a whole range of length scales seen in manufacturing industries from molecular and nanoscale phenomena to enterprise wide optimization and control As such this will appeal to a broad readership since the topic applies not only to all technical processes but also due to the interdisciplinary expertise required to solve the challenge The ultimate reference work for years to come Bulgarian Chemical Communications, 2001 **Applied Mechanics Reviews**, 1974 *Nonlinear*

Instability of Nonparallel Flows S.P. Lin, W.R.C. Phillips, D.T. Valentine, 2012-12-06 The IUTAM Symposium on Nonlinear Instability of Nonparallel Flows was held at Clarkson University Potsdam NY 13699 5725 USA from 26 to 31 July 1993 It consisted of 9 general speeches 35 lectures and 15 poster seminar presentations The papers were grouped in fairly focused sessions on boundary layers shear flows vortices wakes nonlinear waves and jets The symposium was followed by a workshop in which the subject matter discussed was summarized and some further work for future investigation was recommended The highlights of the workshop will be reported elsewhere In this book many of the papers that describe the ideas

presented at the symposium are collected to provide a reference for researchers in charting the future course of their studies in the area of nonlinear instability of nonparallel flows The papers in this book are grouped under the following headings Boundary layers and shear flows Compressibility and thermal effects Vortices and wakes Nonlinear waves and jets In the lead paper of this book M E Goldstein describes an asymptotic theory of nonlinear interaction between two spatially growing oblique waves on nonparallel boundary and free shear layers The wave interaction originates from the nonlinear critical layer and is responsive to weakly nonparallel effects The theory results in a system of integral differential equations which appear to be relevant near the upper branch of the neutral curve

Scientific and Technical Aerospace Reports, 1989 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

Advances in Mathematical Modelling, Applied Analysis and Computation Jagdev Singh, George A. Anastassiou, Dumitru Baleanu, Devendra Kumar, 2024-03-28 This book gathers selected research articles presented in the 6th International Conference on Mathematical Modelling Applied Analysis and Computation ICMMAAC held at JECRC University Jaipur during August 3-5 2023 This book is focused on articles dealing with necessary theory and techniques in a balanced manner and contributes towards solving mathematical problems arising in physics engineering chemistry biological systems medicine networking system control systems environmental sciences social issues of current interest and more Annually held since 2018 the ICMMAAC conference aimed in particular to foster cooperation among practitioners and theoreticians in these fields This proceedings is an invaluable resource for researchers academicians and professionals associated or interested in current advances in different aspects of mathematical modelling computational algorithms and analysis necessary for handling real world problems

Advances in Condensed-Matter and Materials Physics Jagannathan Thirumalai, Sergey Ivanovich Pokutnyi, 2020-05-06 This book Condensed Matter and Material Physics incorporates the work of multiple authors to enhance the theoretical as well as experimental knowledge of materials The investigation of crystalline solids is a growing need in the electronics industry Micro and nano transistors require an in depth understanding of semiconductors of different groups Amorphous materials on the other hand as non equilibrium materials are widely applied in sensors and other medical and industrial applications Superconducting magnets composite materials lasers and many more applications are integral parts of our daily lives Superfluids liquid crystals and polymers are undergoing active research throughout the world Hence profound information on the nature and application of various materials is in demand This book bestows on the reader a deep knowledge of physics behind the concepts perspectives characteristic properties and prospects The book was constructed using 10 contributions from experts in diversified fields of condensed matter and material physics and its technology from over 15 research institutes across the globe

Convection in Porous Media Donald A. Nield, Adrian Bejan, 2012-11-30 Convection in Porous Media 4th Edition provides a user friendly introduction to the subject covering a wide range of topics such as fibrous

insulation geological strata and catalytic reactors The presentation is self contained requiring only routine mathematics and the basic elements of fluid mechanics and heat transfer The book will be of use not only to researchers and practicing engineers as a review and reference but also to graduate students and others entering the field The new edition features approximately 1 750 new references and covers current research in nanofluids cellular porous materials strong heterogeneity pulsating flow and more

Distillation and Absorption '92, 1992 **Giants of Engineering Science** O. Anwar Bég, 2003 *Giants of Engineering Science* is a biographical monograph examining the life and works of ten of the world's leading engineering scientists *Zeitschrift Für Naturforschung*, 1999 **Statistical Fluid Mechanics** Andre? Sergeevich Monin, A. M. I?A?glom, 2007-01-01 If ever a book on turbulence could be called definitive declared Science it is this book by two of Russia's most eminent and productive scientists in turbulence oceanography and atmospheric physics Noted for its clarity as well as its comprehensive treatment this two volume set serves as text or reference 1971 edition

Advances in Applied Mechanics, 1982-06-24 *Advances in Applied Mechanics* *Nonlinear Dynamics and Applications* Santo Banerjee, Asit Saha, 2022-10-06 This book covers recent trends and applications of nonlinear dynamics in various branches of society science and engineering The selected peer reviewed contributions were presented at the International Conference on Nonlinear Dynamics and Applications ICNDA 2022 at Sikkim Manipal Institute of Technology SMIT and cover a broad swath of topics ranging from chaos theory and fractals to quantum systems and the dynamics of the COVID 19 pandemic Organized by the SMIT Department of Mathematics this international conference offers an interdisciplinary stage for scientists researchers and inventors to present and discuss the latest innovations and trends in all possible areas of nonlinear dynamics

Interfacial Convection in Multilayer Systems A. Nepomnyashchy, I. Simanovskii, J.C. Legros, 2011-09-15 This book gives a systematic investigation of convection in systems comprised of liquid layers with deformable interfaces This new edition includes completely updated and new material on flows in ultra thin films and brings up to date progress made in the technology on micro and nano scales Also this revised edition will reflect progress in the dynamics of complex fluids

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