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Mathematical Models for Phase Change Problems

Edited by
J. F. Rodrigues

Mathematical Models For Phase Change Problems Proceedings

J.F. Rodriques

Mathematical Models For Phase Change Problems Proceedings:

Mathematical Models for Phase Change Problems J.F. Rodriques,2013-03-07 This monograph collects research and expository articles reflect ing the interaction and the cooperation of different groups in several European institut ions concerning current research on mathematical models for the behaviour of materials with phase change These papers were presented and discussed in a Workshop held at Obidos Portugal du ring the first three days of October 1988 and grew out of a two year period of intensive exploitation of differ ent abilities and mathematical experiences of the six participating groups namely in the University of Augsburg wh ich was the co ordination center of this project the Laboratoire Central des Ponts et Chaussees of Paris the Aristoteles University of Thessaloniki the University of Florence the University of Lisbon and the University of Oxford This project was carried out under the title Mathemat ical Models of Phase Transitions and Numerical Simulation in the framework of twinning program for stimulation of cooperation and scientific interchange sponsored by the European Community The underlying idea of the project was to create and study the mathematical models arising in applied engineering problems with free boundaries in a broad sense namely in melting and freezing problems diffusion reaction processes solid solid phase transition hysteresis phenomena mushy region descriptions contact prob lems with friction andjor adhesion elastoplastic deformations etc vi This large spectrum of applied problems have in common the main feature of brusque transitions of their qualitative behaviour that correspond in general to non classical discontinuous monotone or non monotone strong nonlinearities in the mathematical equations **Mathematical Models for Phase Change Problems** J.F. Rodriques,1989-09-01 *Proceedings of the 5th International Symposium on Uncertainty Quantification and Stochastic Modelling* José Eduardo Souza De Cursi,2020-08-19 This proceedings book discusses state of the art research on uncertainty quantification in mechanical engineering including statistical data concerning the entries and parameters of a system to produce statistical data on the outputs of the system It is based on papers presented at Uncertainties 2020 a workshop organized on behalf of the Scientific Committee on Uncertainty in Mechanics M canique et Incertain of the AFM French Society of Mechanical Sciences the Scientific Committee on Stochastic Modeling and Uncertainty Quantification of the ABCM Brazilian Society of Mechanical Sciences and the SBMAC Brazilian Society of Applied Mathematics *Mathematical Modeling Of Melting And Freezing Processes* V. Alexiades,2018-05-02 This reference book presents mathematical models of melting and solidification processes that are the key to the effective performance of latent heat thermal energy storage systems LHTES utilized in a wide range of heat transfer and industrial applications This topic has spurred a growth in research into LHTES applications in energy conservation and utilization space station power systems and thermal protection of electronic equipment in hostile environments Further interest in mathematical modeling has increased with the speread of high powered computers used in most industrial and academic settings In two sections the book first describes modeling of phase change processes and then describes applications for LHTES It is aimed at graduate students researchers and

practicing engineers in heat transfer materials processing multiphase systems energy conservation metallurgy microelectronics and cryosurgery   *Proceedings of the Fourth European Conference on Mathematics in Industry* U. Wacker,Walter Zulehner,2012-12-06 The Fourth ECMI Conference on Industrial Mathematics took place at Strobl in Aus tria May 29 June 2 1989 The conference was devoted to the exchange of ideas models and methods from various fields of industrial applications of mathematics About 140 people from 21 countries attended the meeting The aim was to bring together peo ple from industry and from university In this respect the organizers were only partly successful The participance of about 20 people from industry shows that there is still much work to be done to increase the acceptance from this side 72 speakers presented their results as invited or contributed lectures or in the frame of 2 minisymposia One minisymposium was organized by Heinz W Engl and focused on steel processing the other one organized by Hansjorg Wacker dealt with chemical engineering These proceedings consist of 56 papers The articles within each of the sections Invited Lectures Minisymposium Steel Processing Minisymposium Chemical Engi neering and Contributed Lectures are in alphabetical order of the first author Exept for the contributions to the minisymposia which clearly concentrate on the corre sponding topics it is hard to find a reasonable classification of the papers This we believe is typical for industrial mathematics and underlines the vast variety of fields where mathematics could be used to support problem solving We would like to acknowlegde the valuable work of the referees of the articles who certainly helped to improve the quality of this volume

Progress in Applied Mathematical Modeling Fengshan Yang,2008 This book presents new research related to the mathematical modelling of engineering and environmental processes manufacturing and industrial systems It includes heat transfer fluid mechanics CFD and transport phenomena solid mechanics and mechanics of metals electromagnets and MHD reliability modelling and system optimisation finite volume finite element and boundary element procedures decision sciences in an industrial and manufacturing context civil engineering systems and structures mineral and energy resources relevant software engineering issues associated with CAD and CAE and materials and metallurgical engineering   Stability Theory Rolf Jeltsch,Mohamed Mansour,2012-12-06 This book contains the historical development of the seminal paper of Adolf Hurwitz professor in mathematics at ETH 1892 1919 and its impact on other fields The major emphasis however is on modern results in stability theory and its application in the theory of control and numerics In particular stability of the following problems is treated linear nonlinear and time dependent systems discretizations of ordinary and partial differential equations systems with time delay on multidimensional systems In addition robust stability pole placement and problems related to the stability radius are treated The book is an outgrowth of the international conference Centennial Hurwitz on Stability Theory which was held to honor Adolf Hurwitz whose arti cle on the location of roots of a polynomial was published one hundred years ago The conference took place at the Centro Stefano Franscini Monte Verita Ascona Switzerland on May 21 26 1995 This book contains a collection of the papers and open problem discussed all that occasion Leading researchers

from allover the world working on stability theory and its application were invited to present their recent results In one paper the historic development initiated by Hurwitz s article was discussed **A Variational Inequality Approach to free Boundary Problems with Applications in Mould Filling** Jörg Steinbach,2012-12-06 Since the early 1960s the mathematical theory of variational inequalities has been under rapid development based on complex analysis and strongly influenced by real life application Many but of course not all moving free Le a priori un known boundary problems originating from engineering and economic applica tions can directly or after a transformation be formulated as variational inequal ities In this work we investigate an evolutionary variational inequality with a memory term which is as a fixed domain formulation the result of the application of such a transformation to a degenerate moving free boundary problem This study includes mathematical modelling existence uniqueness and regularity results numerical analysis of finite element and finite volume approximations as well as numerical simulation results for applications in polymer processing Essential parts of these research notes were developed during my work at the Chair of Applied Mathematics LAM of the Technical University Munich I would like to express my sincerest gratitude to K H Hoffmann the head of this chair and the present scientific director of the Center of Advanced European Studies and Research caesar for his encouragement and support With this work I am fol lowing a general concept of Applied Mathematics to which he directed my interest and which based on application problems comprises mathematical modelling mathematical and numerical analysis computational aspects and visualization of simulation results **Optimal Control of Nonlinear Parabolic Systems** Pekka Neittaanmaki,D. Tiba,1994-02-08 This book discusses theoretical approaches to the study of optimal control problems governed by non linear evolutions including semi linear equations variational inequalities and systems with phase transitions It also provides algorithms for solving non linear parabolic systems and multiphase Stefan like systems **Integral Equations** Wolfgang Hackbusch,2012-12-06 The theory of integral equations has been an active research field for many years and is based on analysis function theory and functional analysis On the other hand integral equations are of practical interest because of the boundary integral equation method which transforms partial differential equations on a domain into integral equations over its boundary This book grew out of a series of lectures given by the author at the Ruhr Universitat Bochum and the Christian Albrecht Universitat zu Kiel to students of mathematics The contents of the first six chapters correspond to an intensive lecture course of four hours per week for a semester Readers of the book require background from analysis and the foundations of numeri cal mathematics Knowledge of functional analysis is helpful but to begin with some basic facts about Banach and Hilbert spaces are sufficient The theoretical part of this book is reduced to a minimum in Chapters 2 4 and 5 more importance is attached to the numerical treatment of the integral equations than to their theory Important parts of functional analysis e g the Riesz Schauder theory are presented without proof We expect the reader either to be already familiar with functional analysis or to become motivated by the practical examples given here to read a book about this topic We recall that also from a historical

point of view functional analysis was initially stimulated by the investigation of integral equations **Mathematical Models for Phase Change Problems** J.F. Rodriques,2011-10-12 <u>Handbook of Differential Equations: Evolutionary Equations</u> C.M. Dafermos,Milan Pokorny,2008-10-06 The material collected in this volume discusses the present as well as expected future directions of development of the field with particular emphasis on applications The seven survey articles present different topics in Evolutionary PDE s written by leading experts Review of new results in the area Continuation of previous volumes in the handbook series covering Evolutionary PDEs Written by leading experts *Inverse Problems in Engineering Mechanics IV* Mana Tanaka,2003-11-19 This latest collection of proceedings provides a state of the art review of research on inverse problems in engineering mechanics Inverse problems can be found in many areas of engineering mechanics and have many successful applications They are concerned with estimating the unknown input and or the characteristics of a system given certain aspects of its output The mathematical challenges of such problems have to be overcome through the development of new computational schemes regularization techniques objective functionals and experimental procedures The papers within this represent an excellent reference for all in the field Providing a state of the art review of research on inverse problems in engineering mechanics Contains the latest research ideas and related techniques A recognized standard reference in the field of inverse problems Papers from Asia Europe and America are all well represented <u>The Classical Stefan Problem</u> S.C. Gupta,2017-10-13 The Classical Stefan Problem Basic Concepts Modelling and Analysis with Quasi Analytical Solutions and Methods New Edition provides fundamental theory concepts modelling and analysis of the physical mathematical thermodynamical and metallurgical properties of classical Stefan and Stefan like problems as applied to heat transfer problems involving phase changes such as from liquid to solid This self contained work reports and derives the results from tensor analysis differential geometry non equilibrium thermodynamics physics and functional analysis and is thoroughly enriched with many appropriate references for an in depth background reading on theorems This new edition includes more than 400 pages of new material on quasi analytical solutions and methods of classical Stefan and Stefan like problems The book aims to bridge the gap between the theoretical and solution aspects of the afore mentioned problems Provides both the phenomenology and mathematics of Stefan problems Bridges physics and mathematics in a concrete and readable manner Presents well organized chapters that start with proper definitions followed by explanations and references for further reading Includes both numerical and quasi analytical solutions and methods of classical Stefan and Stefan like problems *Clean Energy and Fuel (Hydrogen) Storage* Sesha S. Srinivasan,Elias K. Stefanakos,2019-10-16 Clean energy and fuel storage are often required for both stationary and automotive applications Some of these clean energy and fuel storage technologies currently under extensive research and development include hydrogen storage direct electric storage mechanical energy storage solar thermal energy storage electrochemical batteries and supercapacitors and thermochemical storage The gravimetric and volumetric storage capacity

energy storage density power output operating temperature and pressure cycle life recyclability and cost of clean energy or fuel storage are some of the factors that govern efficient energy and fuel storage technologies for potential deployment in energy harvesting solar and wind farms stations and onboard vehicular transportation This Special Issue thus serves the need for promoting exploratory research and development on clean energy and fuel storage technologies while addressing their challenges to practical and sustainable infrastructures **Proceedings of the ASME Heat Transfer Division** ,1998 Applied Mechanics Reviews ,1975 **Proceedings of the International Conference on Sustainable Energy Technologies** Djourkov Todor,Sivanappan Kumar,Seung-Bok Choi,Hung Nguyen-Xuan,Quoc Hung Nguyen,Thanh Trung Bui,2024-07-12 This book includes selected peer reviewed articles from the International Conference on Sustainable Energy Technology ICSET 2023 held at the Industrial University of Ho Chi Minh City Vietnam with a focus on the theme Sustainable Energy Technologies in the Fourth Industrial Revolution Topics refer to heat and refrigeration engineering including heat transfer and heat exchanger energy saving and efficient use of energy energy safety sustainable energy development and environmental protection new energy and renewable energy techniques for drying and preserving agricultural and food products boilers and heat network gasification pyrolysis technology air conditioning and ventilation refrigeration equipment computational fluid dynamics computational intelligence in renewable energy optimization in electrical electronics systems advanced manufacturing technologies robotics and mechatronics automotive engineering The book not only provides an awareness on the vital importance of sustainability in technologies economics education and countries development but also highlights the essential roles of technological innovations in attaining sustainable development It provides an international platform for researchers practitioners policymakers and entrepreneurs to present recent advances and to exchange knowledge and experience on various topics related to the theme of sustainable energy technology in the fourth industrial revolution **Selected Water Resources Abstracts** ,1989 **Proceedings of International Conference on Thermofluids** Shripad Revankar,Swarnendu Sen,Debjyoti Sahu,2020-11-21 This book presents selected and peer reviewed proceedings of the International Conference on Thermofluids KIIT Thermo 2020 It focuses on the latest studies and findings in the areas of fluid dynamics heat transfer thermodynamics and combustion Some of the topics covered in the book include electronic cooling HVAC system analysis inverse heat transfer combustion nano fluids multiphase flow high speed flow and shock waves The book includes both experimental and numerical studies along with a few review chapters from experienced researchers and is expected to lead to new research in this important area This book is of interest to students researchers as well as practitioners working in the areas of fluid dynamics thermodynamics and combustion

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