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# **Mathematical Models for Phase Change Problems**

Edited by  
**J. F. Rodrigues**

**Birkhäuser**

# Mathematical Models For Phase Change Problems Proceedings

**L Darling-Hammond**



## **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 reflecting the interaction and the cooperation of different groups in several European institutions 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 during the first three days of October 1988 and grew out of a two year period of intensive exploitation of different abilities and mathematical experiences of the six participating groups namely in the University of Augsburg which was the coordination center of this project the Laboratoire Central des Ponts et Chaussées 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 Mathematical 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 problems with friction and adhesion elastoplastic deformations etc. 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

**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 spread 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 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 Mécanique 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      **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      **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 Austria 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 people from industry and from university In this respect the organizers were only partly successful The participation 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 Hansjörg 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 Engineering and Contributed Lectures are in alphabetical order of the first author Except for the contributions to the minisymposia which clearly concentrate on the corresponding 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 acknowledge the valuable work of the referees of the articles who certainly helped to improve the quality of this volume      **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 unknown boundary problems originating from engineering and economic applications can directly or after a transformation be formulated as variational inequalities 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 following 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

**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 article 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 problems discussed all that occasion Leading researchers from all over 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

**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 nonlinear evolutions including semi linear equations variational inequalities and systems with phase transitions It also provides algorithms for solving nonlinear parabolic systems and multiphase Stefan like systems

**Mathematical Models for Phase Change Problems** J.F. Rodrigues, 2011-10-12

**Handbook of Differential Equations: Evolutionary Equations** 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 PDEs 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

**The Classical Stefan Problem** 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

**New Technical Books** New York Public Library,1990      **Applied Mechanics Reviews** ,1975      **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

[Proceedings of the XV Ibero-American Congress of Mechanical Engineering](#) Antonio Vizán Idoipe,Juan Carlos García Prada,2023-08-02 This open access book shows some of the highlights presented at the XV Ibero American Congress of Mechanical Engineering The papers explore the forefront of Mechanical Engineering containing research into fluid mechanics energy systems tribology materials science robotics mechatronics biomechanics instrumentation thermodynamics and mechanical sustainability

*Energy Research Abstracts* ,1992-12      **Food Process Engineering and Quality Assurance** C.O. Mohan,Elizabeth Carvajal-Millan,C.N. Ravishankar,A. K. Haghi,2018-02-28 This new book Food Process Engineering and Quality Assurance provides an abundance of valuable new research and studies in novel technologies used in food processing and quality

assurance issues of food The 750 page book gives a detailed technical and scientific background of various food processing technologies that are relevant to the industry The food process related application of engineering technology involves interdisciplinary teamwork which in addition to the expertise of interdisciplinary engineers draws on that of food technologists microbiologists chemists mechanical engineers biochemists geneticists and others The processes and methods described in the book are applicable to many areas of the food industry including drying milling extrusion refrigeration heat and mass transfer membrane based separation concentration centrifugation fluid flow and blending powder and bulk solids mixing pneumatic conveying and process modeling monitoring and control Food process engineering know how can be credited with improving the conversion of raw foodstuffs into safe consumer products of the highest possible quality This book looks at advanced materials and techniques used for among other things chemical and heat sterilization advanced packaging and monitoring and control which are essential to the highly automated facilities for the high throughput production of safe food products With contributions from prominent scientists from around the world this volume provides an abundance of valuable new research and studies on novel technologies used in food processing and quality assurance issues It gives a detailed technical and scientific background of various food processing technologies that are relevant to the industry Special emphasis is given to the processing of fish candelilla dairy and bakery products Rapid detection of pathogens and toxins and application of nanotechnology in ensuring food safety are also emphasized Key features Presents recent research development with applications Discusses new technology and processes in food process engineering Provides several chapters on candelilla which is frequently used as a food additive but can also be used in cosmetics drugs etc covering its characteristics common uses geographical distribution and more

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