



The Classical Stefan Problem

Basic Concepts, Modelling
and Analysis with Quasi-Analytical
Solutions and Methods

New Edition

S.C. Gupta

Classical Stefan Problem Basic Concepts Modelling And Analysis

Shumon Koga, Miroslav Krstic



Classical Stefan Problem Basic Concepts Modelling And Analysis:

The Classical Stefan Problem S.C. Gupta,2003-10-22 This volume emphasises studies related to classical Stefan problems The term Stefan problem is generally used for heat transfer problems with phase changes such as from the liquid to the solid Stefan problems have some characteristics that are typical of them but certain problems arising in fields such as mathematical physics and engineering also exhibit characteristics similar to them The term classical distinguishes the formulation of these problems from their weak formulation in which the solution need not possess classical derivatives Under suitable assumptions a weak solution could be as good as a classical solution In hyperbolic Stefan problems the characteristic features of Stefan problems are present but unlike in Stefan problems discontinuous solutions are allowed because of the hyperbolic nature of the heat equation The numerical solutions of inverse Stefan problems and the analysis of direct Stefan problems are so integrated that it is difficult to discuss one without referring to the other So no strict line of demarcation can be identified between a classical Stefan problem and other similar problems On the other hand including every related problem in the domain of classical Stefan problem would require several volumes for their description A suitable compromise has to be made The basic concepts modelling and analysis of the classical Stefan problems have been extensively investigated and there seems to be a need to report the results at one place This book attempts to answer that need **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 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 *Stochastic Processes, Statistical Methods, and Engineering Mathematics* Anatoliy Malyarenko, Ying Ni, Milica Rančić, Sergei Silvestrov, 2023-01-26 The goal of the 2019 conference on Stochastic Processes and Algebraic Structures held in SPAS2019 Västerås Sweden from September 30th to October 2nd 2019 was to showcase the frontiers of research in several important areas of mathematics mathematical statistics and its applications The conference was organized around the following topics 1 Stochastic processes and modern statistical methods 2 Engineering mathematics 3 Algebraic structures and their applications The conference brought together a select group of scientists researchers and practitioners from the industry who are actively contributing to the theory and applications of stochastic and algebraic structures methods and models The conference provided early stage researchers with the opportunity to learn from leaders in the field to present their research as well as to establish valuable research contacts in order to initiate collaborations in Sweden and abroad New methods for pricing sophisticated financial derivatives limit theorems for stochastic processes advanced methods for statistical analysis of financial data and modern computational methods in various areas of applied science can be found in this book The principal reason for the growing interest in these questions comes from the fact that we are living in an extremely rapidly changing and challenging environment This requires the quick introduction of new methods coming from different areas of applied science Advanced concepts in the book are illustrated in simple form with the help of tables and figures Most of the papers are self contained and thus ideally suitable for self study Solutions to sophisticated problems located at the intersection of various theoretical and applied areas of the natural sciences are presented in these proceedings

Handbook of Differential Equations: Evolutionary Equations C.M. Dafermos, Milan Pokorný, 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 *Free Boundary Problems* Isabel Narra Figueiredo, Lisa Santos, 2007-01-11 This book collects refereed lectures and communications presented at the Free Boundary Problems Conference FBP2005 These discuss the mathematics of a broad class of models and problems involving nonlinear partial differential equations arising in physics engineering biology and finance Among other topics the talks considered free boundary problems in biomedicine in porous media in thermodynamic modeling in fluid mechanics in image processing in financial mathematics or in computations for inter scale problems

Advanced Topics in Mass Transfer Mohamed El-Amin, 2011-02-21 This book introduces a number of selected advanced topics in mass transfer phenomenon and covers its theoretical numerical modeling and experimental aspects The 26 chapters of this book are divided into five parts The first is devoted to the study of some problems of mass transfer in microchannels turbulence

waves and plasma while chapters regarding mass transfer with hydro magnetohydro and electro dynamics are collected in the second part The third part deals with mass transfer in food such as rice cheese fruits and vegetables and the fourth focuses on mass transfer in some large scale applications such as geomorphologic studies The last part introduces several issues of combined heat and mass transfer phenomena The book can be considered as a rich reference for researchers and engineers working in the field of mass transfer and its related topics

Man-Machine Interactions 3 Dr. Aleksandra Gruca, Tadeusz Czachórski, Stanisław Kozielski, 2013-10-01 Man Machine Interaction is an interdisciplinary field of research that covers many aspects of science focused on a human and machine in conjunction Basic goal of the study is to improve and invent new ways of communication between users and computers and many different subjects are involved to reach the long term research objective of an intuitive natural and multimodal way of interaction with machines The rapid evolution of the methods by which humans interact with computers is observed nowadays and new approaches allow using computing technologies to support people on the daily basis making computers more usable and receptive to the user s needs This monograph is the third edition in the series and presents important ideas current trends and innovations in the man machine interactions area The aim of this book is to introduce not only hardware and software interfacing concepts but also to give insights into the related theoretical background Reader is provided with a compilation of high quality original papers covering a wide scope of research topics divided into eleven sections namely human computer interactions robot control embedded and navigation systems bio data analysis and mining biomedical signal processing image and sound processing decision support and expert systems rough and fuzzy systems pattern recognition algorithms and optimization computer networks and mobile technologies and data management systems

High-Performance Computing Systems and Technologies in Scientific Research, Automation of Control and Production Vladimir Jordan, Nikolay Filimonov, Ilya Tarasov, Vladimir Faerman, 2021-01-15 This book constitutes selected revised and extended papers from the 10th International Conference on High Performance Computing Systems and Technologies in Scientific Research Automation of Control and Production HPCST 2020 Barnaul Russia in May 2020 Due to the COVID 19 pandemic the conference was partly held in virtual mode The 14 full papers presented in this volume were thoroughly reviewed and selected from 51 submissions The papers are organized in topical sections on hardware for high performance computing and its applications information technologies and computer simulation of physical phenomena

Advances in Thermal Energy Storage Systems Luisa F. Cabeza, 2014-10-31 Thermal energy storage TES technologies store thermal energy both heat and cold for later use as required rather than at the time of production They are therefore important counterparts to various intermittent renewable energy generation methods and also provide a way of valorising waste process heat and reducing the energy demand of buildings This book provides an authoritative overview of this key area Part one reviews sensible heat storage technologies Part two covers latent and thermochemical heat storage respectively The final section addresses applications in heating and

energy systems Reviews sensible heat storage technologies including the use of water molten salts concrete and boreholes Describes latent heat storage systems and thermochemical heat storage Includes information on the monitoring and control of thermal energy storage systems and considers their applications in residential buildings power plants and industry

Materials Phase Change PDE Control & Estimation Shumon Koga, Miroslav Krstic, 2020-11-01 This monograph introduces breakthrough control algorithms for partial differential equation models with moving boundaries the study of which is known as the Stefan problem The algorithms can be used to improve the performance of various processes with phase changes such as additive manufacturing Using the authors innovative design solutions readers will also be equipped to apply estimation algorithms for real world phase change dynamics from polar ice to lithium ion batteries A historical treatment of the Stefan problem opens the book situating readers in the larger context of the area Following this the chapters are organized into two parts The first presents the design method and analysis of the boundary control and estimation algorithms Part two then explores a number of applications such as 3D printing via screw extrusion and laser sintering and also discusses the experimental verifications conducted A number of open problems are provided as well offering readers multiple paths to explore in future research Materials Phase Change PDE Control Estimation is ideal for researchers and graduate students working on control and dynamical systems and particularly those studying partial differential equations and moving boundaries It will also appeal to industrial engineers and graduate students in engineering who are interested in this area

Mathematical Reviews ,2007 **Proceedings** ,2008 **Laser Ablation-ICP-MS in the Earth Sciences** Paul Joseph Sylvester,2008 Accompanying CD ROM titled Short course volume 29 2001 to accompany Short course 40 2008 **Journal of analysis and its applications** ,1982 **American Book Publishing Record** ,2005 **The British National Bibliography** Arthur James Wells,2005 **Technology of Object-oriented Languages and Systems** Boris Magnusson,1994 American Scientist ,1942 **Proceedings. U.S. National Congress of Applied Mechanics** ,1982

The Enigmatic Realm of **Classical Stefan Problem Basic Concepts Modelling And Analysis**: Unleashing the Language is Inner Magic

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