



Theory Of Solidification

**McGill University. Department of
Mathematics and Statistics, Xu, Jian-
Jun**

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Theory of Solidification Stephen H. Davis,2001-10-08 The processes of freezing and melting were present at the beginnings of the Earth and continue to dominate the natural and industrial worlds The solidification of a liquid or the melting of a solid involves a complex interplay of many physical effects This 2001 book presents in a systematic way the field of continuum solidification theory based on instability phenomena An understanding of the physics is developed by using examples of increasing complexity with the object of creating a deep physical insight applicable to more complex problems Applied mathematicians engineers physicists and materials scientists will all find this volume of interest Theory of Solidification Stephen H. Davis,2001-10-08 The processes of freezing and melting were present at the beginnings of the Earth and continue to dominate the natural and industrial worlds The solidification of a liquid or the melting of a solid involves a complex interplay of many physical effects This book systematically presents the field of continuum solidification theory based on instability phenomena An understanding of the physics is developed by using examples of increasing complexity with the object of creating a deep physical insight applicable to more complex problems Applied mathematicians engineers physicists and materials scientists will all find this volume of interest **Theory of Solidification and Crystal Growth** Seppo A. Korpela,1994 *Solidification* Atsumi Ohno,2012-12-06 This book deals with the fundamental casting technology issues of how metal solidifies within a mould and of when where and how equiaxed crystals are formed The author describes how he discovered the phenomenon of crystal separation and established the principle of controlling cast structures and describes the events leading up to the success of the OCC Ohno Continuous Casting Process which enables the continuous production of a single crystal ingot This book will be of interest to students and researchers as well as to practising engineers **Solidification Theory and the Effects of Natural and Augmented Convection on the Substructure of Metals** Henry MacLaren,1979 *Advanced numerical methods in solidification theory* Lucien N. Brush,1988 **The Theory and Practice of the Preparation of Malt and the Fabrication of Beer** Julius E. Thausing,1882 *Theory of Cosmic Reason* I. Vinogradoff,1905 **The Theory of Heat** Thomas Preston,1929 Science and Engineering of Casting Solidification Doru Michael Stefanescu,2002 Casting of metals evolved first as witchcraft gradually became an art then technology and became only recently a science Many of the processes used in a metal casting are still empirical in nature but many others are deeply rooted in mathematics In whatever form casting of metals is an activity fundamental in the very existence of our world as we know it today Foundry reports indicate that solidification modeling is not only a cost effective investment but also a major technical asset It helps foundries move into markets with more complex and technically demanding work However to the best of the author s knowledge there have been no attempts to synthesize the information that can be used for engineering calculations pertinent to computational modeling of casting solidification This book is based on the author s thirty years of experience with teaching research and the industrial practice

of solidification science as applied to casting processes It is an attempt to describe solidification theory through the complex mathematical apparatus that includes partial differential equations and numerical analysis which are required for a fundamental treatment of the problem The mathematics however is restricted to the element essential to attain a working knowledge of the field This is in line with the main goal of the book which is to educate the reader in the fast moving area of computational modeling of solidification of casting For the sake of completeness a special effort has been made to introduce the reader to the latest developments in solidification theory even if the reader has no engineering applications at this time The text is designed to be self contained The author s teaching experience demonstrates that some of the students interested in solidification science are not fully proficient in partial differential equations PDE and or numerical analysis Accordingly elements of PDE and numerical analysis required to obtain a working knowledge of computational solidification modeling have been introduced in the text while attempting to avoid the interruption of the fluency of the subject Numerous modeling and calculation examples using the Excel spreadsheet as an engineering tool are provided The book is addressed to graduate students and seniors in solidification science as well as to industrial researchers who work in the field of solidification in general and casting modeling in particular

Defects and Diffusion Theory and Simulation III David Fisher,2012-01-03

This volume on materials engineering comprises a collection of abstracts of recent scholarly papers and articles concerning a wide variety of topics related to the effects of structural defects and diffusion in many material areas including thin film manufacturing and facing metals

The Theory of Allotropy Andreas Smits,John Smeath Thomas,1922

Production of Ferrous and Non-ferrous Alloy Castings in Permanent Moulds: Theory and Practice ,1969

Modeling for Casting and Solidification Processing Kuang-Oscar Yu,2001-10-16 This text seeks to provide a comprehensive technical foundation and practical examples for casting process modelling technology It highlights fundamental theory for solidification and useful applications for industrial production It also details shape and ingot castings semi solid metalworking and spray forming

Marine Engineering in Theory and Practice Sidney Gordon Wheeler,1928

Application of Solidification Theory to Rapid Solidification Processing ,1982 The objective of this work is to develop guidelines based on kinetic and thermodynamic solidification theory for prediction and control of rapid solidification processes In particular segregation effects and rules governing the formation of equilibrium and non equilibrium phases including metallic glasses will be investigated Areas where significant improvements in alloy properties can be produced by rapid solidification will be emphasized Significant accomplishments during the period were achieved in the following areas Extended Solid Solubilities for Production of Alloys with New Compositions and Phases Interface Stability for Production of More Homogeneous Alloys Interface Kinetics for Production of Alloys with Finer Segregation Prevention of Cracking Caused by Residual Stress for Production of Alloys with Improved Surface Structures

Science Abstracts ,1922

Interfacial Wave Theory of Solidification : Dendritic Pattern Formation and Selection of Growth Velocity McGill University. Department of Mathematics

and Statistics, Xu, Jian-Jun, 1989 **Solidification and Crystallization Processing in Metals and Alloys** Hasse Fredriksson, Ulla Åkerlind, 2012-07-02 Solidification and Crystallization Processing in Metals and Alloys Hasse Fredriksson KTH Royal Institute of Technology Stockholm Sweden Ulla Åkerlind University of Stockholm Sweden Solidification or crystallization occurs when atoms are transformed from the disordered liquid state to the more ordered solid state and is fundamental to metals processing Conceived as a companion volume to the earlier works Materials Processing during Casting 2006 and Physics of Functional Materials 2008 this book analyzes solidification and crystallization processes in depth Starting from the thermodynamic point of view it gives a complete description taking into account kinetics and mass transfer down to the final structure Importantly the book shows the relationship between the theory and the experimental results Topics covered include Fundamentals of thermodynamics Properties of interfaces Nucleation Crystal growth in vapours liquids and melts Heat transport during solidification processes Solidification structures faceted dendritic eutectic and peritectic Metallic glasses and amorphous alloy melts Solidification and Crystallization Processing in Metals and Alloys features many solved examples in the text and exercises with answers for students Intended for Masters and PhD students as well as researchers in Materials Science Engineering Chemistry and Metallurgy it is also a valuable resource for engineers in industry *Engineering and Mining Journal* ,1888

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