



Microstructural Design By Solidification Processing

Liying Dong



Microstructural Design By Solidification Processing:

Microstructural Design by Solidification Processing Enrique J. Lavernia, M. N. Gungor, 1992 Recent successes in developing new and novel materials with unusual combinations of microstructure and properties have been based upon the ability to develop their desired characteristics by exercising engineered microstructural design prior to and intelligent control during processing *Microstructural Design by Solidification Processing* Minerals, Metals and Materials Society Staff, *Modeling and Simulation of Microstructure Evolution in Solidifying Alloys* Laurentiu Nastac, 2007-05-08 The aim of *Modeling and Simulation of Microstructure Evolution in Solidifying Alloys* is to describe in a clear mathematical language the physics of the solidification structure evolution of cast alloys The concepts and methodologies presented here for the net shaped casting and the ingot remelt processes can be applied with some modifications to model other solidification processes such as welding and deposition processes Another aim of the book is to provide simulation examples of the solidification structure modeling in some crucial commercial casting technologies as well as to provide practical techniques for controlling the structure formation during the solidification processes *Phase Transformation in Metals* Nestor Perez, 2020-09-25 This textbook explains the physics of phase transformation and associated constraints from a metallurgical or materials science point of view based on many topics including crystallography mass transport by diffusion thermodynamics heat transfer and related temperature gradients thermal deformation and even fracture mechanics The work presented emphasizes solidification and related analytical models based on heat transfer This corresponds with the most fundamental physical event of continuous evolution of latent heat of fusion for directional or non directional liquid to solid phase transformation at a specific interface with a certain geometrical shape such as planar or curved front Dr Perez introduces mathematical and engineering approximation schemes for describing the phase transformation mainly during solidification of pure metals and alloys Giving clear definitions and explanations of theoretical concepts and full detail of derivation of formulae this interdisciplinary volume is ideal for graduate and upper level undergraduate students in applied science and professionals in the metal making and surface reconstruction industries *Scientific and Technical Aerospace Reports*, 1985 **Advanced Materials & Processes**, 1992-07 **Advanced Materials and Technologies II** Stanislav Kolisnychenko, 2019-06-21 Special topic volume with invited peer reviewed papers only Advanced Materials and Processing Technologies: IFMPT 2014 Seung Bok Choi, Yun Hae Kim, 2014-02-27 Selected peer reviewed papers from the 2014 International Forum on Materials Processing Technology IFMPT 2014 January 18 19 2014 2014 Guangzhou China International Journal of Powder Metallurgy, 1995 **NASA Microgravity Materials Science Conference**, 1999 **Microstructural Evolution in Metal Processing** American Society of Mechanical Engineers. Winter Annual Meeting, 1990 **Metals Abstracts**, 1998 General Catalog Orta Doğu Teknik Üniversitesi (Ankara, Turkey), 2002 **Influence of Processing Variables and Aluminum Content on the Microstructure and Mechanical Properties of Cast Mg-Al Alloys** Blair Edward

Carlson,1997 *European Scientific Notes* ,1991 **ESN Information Bulletin** ,1991 *Transactions of the American Foundrymen's Society* American Foundrymen's Society,1999 *High-temperature Ordered Intermetallic Alloys IX* Joachim H. Schneibel,2001 Materials World ,1993 *Microstructural Development in NbCr₂-based Alloys* Dan J. Thoma,1992

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