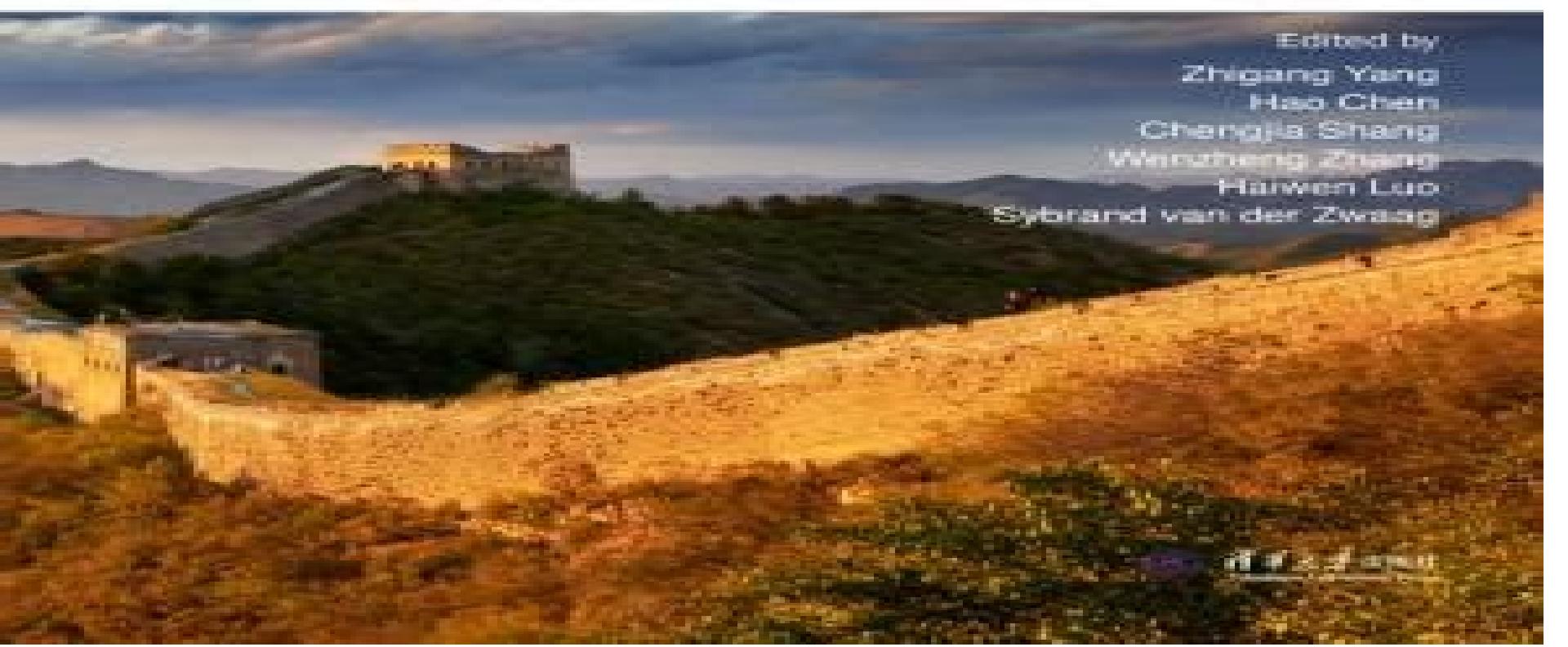# Proceedings of the International Conference on Solid→Solid Phase Transformations in Inorganic Materials 2022

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Solid State Development and Processing of Pharmaceutical Molecules Michael Gruss,2021-09-14 Solid State Development and Processing of Pharmaceutical Molecules A guide to the lastest industry principles for optimizing the production of solid state active pharmaceutical ingredients Solid State Development and Processing of Pharmaceutical Molecules is an authoritative guide that covers the entire pharmaceutical value chain The authors noted experts on the topic examine the importance of the solid state form of chemical and biological drugs and review the development production quality control formulation and stability of medicines The book explores the most recent trends in the digitization and automation of the pharmaceutical production processes that reflect the need for consistent high quality It also includes information on relevant regulatory and intellectual property considerations This resource is aimed at professionals in the pharmaceutical industry and offers an in depth examination of the commercially relevant issues facing developers producers and distributors of drug substances This important book Provides a guide for the effective development of solid drug forms Compares different characterization methods for solid state APIs Offers a resource for understanding efficient production methods for solid state forms of chemical and biological drugs Includes information on automation process control and machine learning as an integral part of the development and production workflows Covers in detail the regulatory and quality control aspects of drug development Written for medicinal chemists pharmaceutical industry professionals pharma engineers solid state chemists chemical engineers Solid State Development and Processing of Pharmaceutical Molecules reviews information on the solid state of active pharmaceutical ingredients for their efficient development and production

Treatise on Process Metallurgy Alexander McLean,Roderick Guthrie,Sridhar Seetharaman,H. Y. Sohn,2025-06-16 Treatise on Process Metallurgy Volume Two Process Phenomena provides academics with the fundamentals of the manufacturing of metallic materials from raw materials into finished parts or products In these fully updated volumes coverage is expanded into four volumes including Process Fundamentals encompassing process fundamentals structure and properties of matter thermodynamic aspects of process metallurgy and rate phenomena in process metallurgy Processing Phenomena encompassing interfacial phenomena in high temperature metallurgy metallurgical process phenomena and metallurgical process technology Metallurgical Processes encompassing mineral processing aqueous processing electrochemical material and energy processes and iron and steel technology non ferrous process principles and production technologies and more The work distills the combined academic experience from the principal editor and the multidisciplinary four member editorial board Provides the entire breadth of process metallurgy in a single work Includes in depth knowledge in all key areas of process metallurgy Approaches the topic from an interdisciplinary perspective providing broad range coverage on topics **Comprehensive Materials Processing** ,2014-04-07 Comprehensive Materials Processing Thirteen Volume Set provides students and professionals with a one stop resource consolidating and enhancing

the literature of the materials processing and manufacturing universe It provides authoritative analysis of all processes technologies and techniques for converting industrial materials from a raw state into finished parts or products Assisting scientists and engineers in the selection design and use of materials whether in the lab or in industry it matches the adaptive complexity of emergent materials and processing technologies Extensive traditional article level academic discussion of core theories and applications is supplemented by applied case studies and advanced multimedia features Coverage encompasses the general categories of solidification powder deposition and deformation processing and includes discussion on plant and tool design analysis and characterization of processing techniques high temperatures studies and the influence of process scale on component characteristics and behavior Authored and reviewed by world class academic and industrial specialists in each subject field Practical tools such as integrated case studies user defined process schemata and multimedia modeling and functionality Maximizes research efficiency by collating the most important and established information in one place with integrated applets linking to relevant outside sources **Handbook of Thermal Process Modeling Steels** Cemil Hakan Gur,Jiansheng Pan,2008-12-22 An Emerging Tool for Pioneering Engineers Co published by the International Federation of Heat Treatment and Surface Engineering Thermal processing is a highly precise science that does not easily lend itself to improvements through modeling as the computations required to attain an accurate prediction of the microstructure and properties of work pieces is sophisticated beyond the capacity of human calculation Over the years any developments in thermal processes relied largely on empiricism and traditional practice but advancements in computer technology are beginning to change this Enhances the quest for process optimization Comprehensive and authoritative the Handbook of Thermal Process Modeling of Steels provides practicing engineers with the first complete resource that meets the needs of both those new to modeling and those hoping to profit from advances in the field Written by those with practical experience it demonstrates what is involved in predicting material response under industrial rather than laboratory conditions and consequently gives heightened insight into the physical origins of various aspects of materials behavior Encourages both the understanding and the use of real time process control Before the advent of sophisticated computers the errors inherent in computational predictions made modeling an ineffective gamble rather than a cost saving tool Today modeling shows great promise in both materials performance improvements and process cost reduction The basic mathematical models for thermal processing simulation gradually introduced to date have yielded enormous advantages for some engineering applications however much research needs to e accomplished as existing models remain highly simplified by comparison with real commercial thermal processes Yet this is quickly changing Ultimately those engineers who can move this tool of improvement out of the lab and onto the factory floor will discover vast opportunities to gain a competitive edge

Advanced Topics in Crystallization Yitzhak Mastai,2015-05-06 In nearly all process industries crystallization is used at some stage as a method of production purification or recovery of solid materials In recent years a number of new applications

have also come to rely on crystallization processes such as the crystallization of nano and amorphous materials The articles in this book have been contributed by some of the most respected researchers in this area and cover the frontier areas of research and developments in crystallization processes Divided into three sections this book provides the latest research developments in many aspects of crystallization including the crystallization of biological macromolecules and pharmaceutical compounds the crystallization of nanomaterials and the crystallization of amorphous and glassy materials This book is of interest to both fundamental research and practicing scientists and will prove invaluable to all chemical engineers and industrial chemists in process industries as well as crystallization workers and students in industry and academia *Modern Diffraction Methods* E. J. Mittemeijer,U. Welzel,2013-02-04 The role of diffraction methods for the solid state sciences has been pivotal to determining the micro structure of a material Particularly the expanding activities in materials science have led to the development of new methods for analysis by diffraction This book offers an authoritative overview of the new developments in the field of analysis of matter by in particular X ray electron and neutron diffraction It is composed of chapters written by leading experts on modern diffraction methods The focus in the various chapters of this book is on the current forefront of research on and applications for diffraction methods This unique book provides descriptions of the state of the art and at the same time identifies avenues for future research The book assumes only a basic knowledge of solid state physics and allows the application of the described methods by the readers of the book either graduate students or mature scientists IUTAM Symposium on Mechanics of Martensitic Phase Transformation in Solids Qing-Ping Sun,2002-08-31 Phase transition phenomena in solids are of vital interest to physicists materials scientists and engineers who need to understand and model the mechanical behavior of solids during various kinds of phase transformations This volume is a collection of 29 written contributions by distinguished invited speakers from 14 countries to the IUTAM Symposium on Mechanics of Martensitic Phase Transformation in Solids the first IUTAM Symposium focusing on this topic It contains basic theoretical and experimental aspects of the recent advances in the mechanics research of martensitic phase transformations The main topics include microstructure and interfaces material instability and its propagation micromechanics approaches interaction between plasticity and phase transformation phase transformation in thin films single and polycrystalline shape memory alloys shape memory polymers TRIP steels etc Due to the multidisciplinary nature of the research covered this volume will be of interest to researchers graduate students and engineers in the field of theoretical and applied mechanics as well as materials science and technology *Treatise on Process Metallurgy* Roderick Guthrie,Alexander McLean,Sridhar Seetharaman,H. Y. Sohn,2024-01-25 Treatise on Process Metallurgy Volume One Process Fundamentals provides academics with the fundamentals of the manufacturing of metallic materials from raw materials into finished parts or products In these fully updated volumes coverage is expanded into four volumes including Process Fundamentals encompassing process fundamentals structure and properties of matter

thermodynamic aspects of process metallurgy and rate phenomena in process metallurgy Processing Phenomena encompassing interfacial phenomena in high temperature metallurgy metallurgical process phenomena and metallurgical process technology Metallurgical Processes encompassing mineral processing aqueous processing electrochemical material and energy processes and iron and steel technology non ferrous process principles and production technologies and more The work distills the combined academic experience from the principal editor and the multidisciplinary four member editorial board Provides the entire breadth of process metallurgy in a single work Includes in depth knowledge in all key areas of process metallurgy Approaches the topic from an interdisciplinary perspective providing broad range coverage on topics

Developing Solid Oral Dosage Forms Yihong Qiu,Yisheng Chen,Geoff G.Z. Zhang,Lirong Liu,William Porter,2009-03-10 Developing Solid Oral Dosage Forms is intended for pharmaceutical professionals engaged in research and development of oral dosage forms It covers essential principles of physical pharmacy biopharmaceutics and industrial pharmacy as well as various aspects of state of the art techniques and approaches in pharmaceutical sciences and technologies along with examples and or case studies in product development The objective of this book is to offer updated or current knowledge and skills required for rational oral product design and development The specific goals are to provide readers with Basics of modern theories of physical pharmacy biopharmaceutics and industrial pharmacy and their applications throughout the entire process of research and development of oral dosage forms Tools and approaches of preformulation investigation formulation process design characterization and scale up in pharmaceutical sciences and technologies New developments challenges trends opportunities intellectual property issues and regulations in solid product development The first book ever that provides comprehensive and in depth coverage of what s required for developing high quality pharmaceutical products to meet international standards It covers a broad scope of topics that encompass the entire spectrum of solid dosage form development for the global market including the most updated science and technologies practice applications regulation intellectual property protection and new development trends with case studies in every chapter A strong team of more than 50 well established authors co authors of diverse background knowledge skills and experience from industry academia and regulatory agencies   **Universal Decimal Classification: Alphabetical subject index** British Standards Institution,1994   **New Materials and Technologies in Mechanical Engineering** Anatoly A. Popovich,Aleksander V. Semencha,Yury Klochkov,2019-09-24 International Scientific Conference New Materials and Technologies in Mechanical Engineering NMTME 2019 Selected peer reviewed papers from the International Scientific Conference New Materials and Technologies in Mechanical Engineering NMTME 2019 March 12 15 2019 St Petersburg Russian Federation   *Initial Stages of Epitaxial Growth* Robert Hull,John Murray Gibson,David Anthony Smith,1987 Papers of the Apr 1987 symposium on title Anaheim CA   *Solid Mechanics Research Trends and Oppotunities* ,1985

Elementary Inorganic Chemistry George S. Newth,1897   JJAP Letters ,1986   Phase Transformations Elias C.

Aifantis,John Gittus,1986-09-30 Most papers based on contributions given at the Symposium on Phase Transformations an Interdisciplinary Gathering held in Newark Del Aug 21 22 1983 at the 20th Annual Meeting of the Society of Engineering Science *Index of Conference Proceedings Received* ,1979 **Indian Science Abstracts** ,2010 Solidification Processes and Microstructures Michel Rappaz,Christoph Beckermann,Rohit Trivedi,2004-03 Papers from a March 2004 symposium describe recent work in solidification processes and microstructures in the areas of mushy zone dynamics rapid solidification and phase field modeling Some specific topics include kinetics of dendritic mushy zones anisotropy effects in lamellar eutectic growth network modeling of liquid metal transport in solidifying aluminum alloys and the topology of coarsened microstructures Other topics include diffuse solid liquid interfaces and solute trapping phase selection transitions during undercooled melt solidification dendritic growth in confined spaces the influence of foreign particles in the formation of polycrystalline solidification patterns and a cellular automaton for growth of solutal dendrites Annotation 2004 Book News Inc Portland OR booknews com **Transactions of the American Foundrymen's Society** American Foundrymen's Society,1998

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