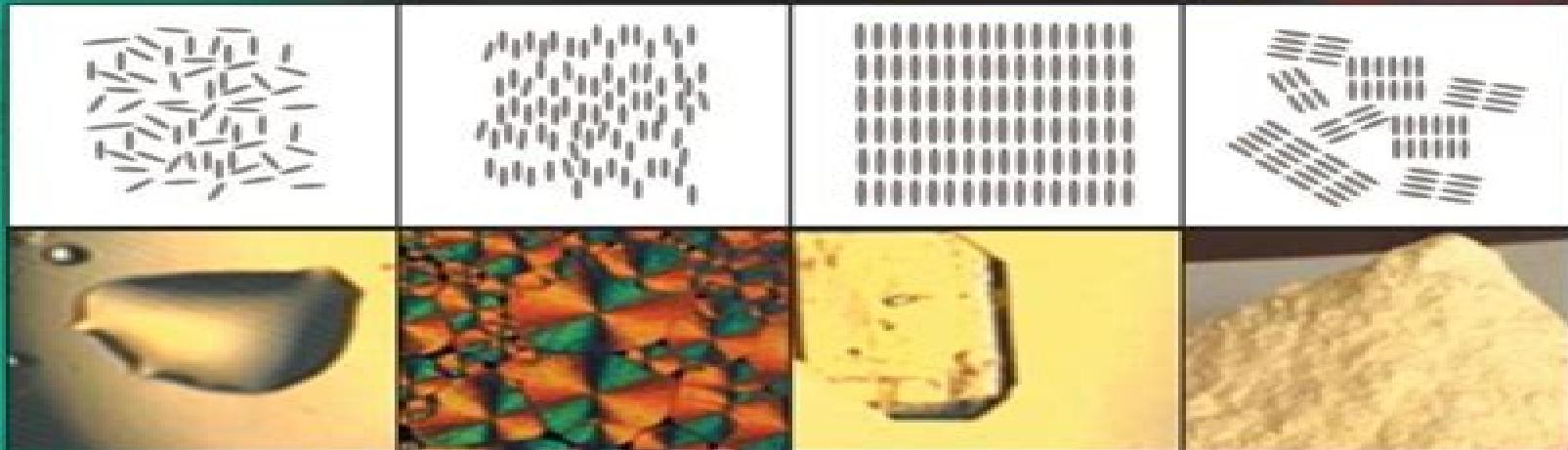


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Presents a detailed discussion of important solid state properties methods and applications of solid state analysis. Illustrates the various phases or forms that solids can assume and discusses various issues related to the relative stability of solid forms and tendencies to undergo transformation. Covers key methods of solid state analysis including X ray powder diffraction, thermal analysis, microscopy, spectroscopy, and solid state NMR. Reviews critical physical attributes of pharmaceutical materials mainly related to drug substances including particle size, surface area, hygroscopicity, mechanical properties, solubility, and physical and chemical stability. Showcases the application of solid state material science in rational selection of drug solid forms, analysis of various solid forms within drug substance and the drug product, and pharmaceutical product development. Introduces appropriate manufacturing and control procedures using Quality by Design and other strategies that lead to safe and effective products with a minimum of resources and time.

Solid-State Materials in Pharmaceutical Chemistry Stephen R. Byrn, George Zografi, Xiaoming (Sean) Chen, 2025-10-28
Updated and expanded information on the properties of pharmaceutical solids and their impact on drug product performance, quality, and stability. *Solid State Materials in Pharmaceutical Chemistry* provides readers with a comprehensive and up-to-date resource for understanding and controlling the solid state properties of pharmaceutical materials, enabling the development of safe and effective medicines including small molecule compounds, peptides, proteins, and nucleotides. This new edition covers the significant transformations in the landscape of pharmaceutical research, development, and manufacturing since the previous edition was published, presenting both novel challenges and unprecedented opportunities. New chapters in this edition cover physical and chemical properties of RNA therapeutics, a frontier to many life-saving medicines and vaccines including Covid vaccines, and final stage drug substance manufacturing and control, addressing challenges in API process development including impurity purging, chiral separation, final form preparation, particle size reduction, and nitrosamine control. Readers will also find other updated topics including bulk and surface properties of solids, lipid nanoparticles, applications of pharmaceutical solvates in impurity purging, and final form preparation, pharmaceutical cocrystal engineering to enable chiral separation, the emerging technique of microcrystal electron diffraction in solid form characterization, poor wettability of APIs, oral delivery of peptides such as semaglutide, injectable drug device combination products, and N-nitrosamine control in drug product. This updated and revised Second Edition still features Physical and chemical properties of solid state pharmaceuticals such as amorphous forms, mesophases, polymorphs, hydrates, solvates, salts, co-crystals, nano-particles, and solid dispersions. Characterization techniques for solid form identification and physical attribute analysis such as X Ray powder diffraction, thermal analysis, microscopy, spectroscopy, solid state NMR, particle analysis, water sorption, mechanical property testing, solubility, and dissolution. Applications of pharmaceutical chemistry and physical characterization techniques in developing and testing drug

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Controlling Solid-state and Particle Properties of Pharmaceutical Materials by Spray Drying Alice Parkes, 2025

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Richard A. Storey, Ingvar Ymén, 2011-03-31 The field of solid state characterization is central to the pharmaceutical industry as drug products are in an overwhelming number of cases produced as solid materials Selection of the optimum solid form is a critical aspect of the development of pharmaceutical compounds due to their ability to exist in more than one form or crystal structure polymorphism These polymorphs exhibit different physical properties which can affect their biopharmaceutical properties This book provides an up to date review of the current techniques used to characterize pharmaceutical solids Ensuring balanced practical coverage with industrial relevance it covers a range of key applications in the field The following topics are included Physical properties and processes Thermodynamics Intellectual guidance X ray diffraction Spectroscopy Microscopy Particle sizing Mechanical properties Vapour sorption Thermal analysis Calorimetry Polymorph prediction Form selection

Polymorphism Rolf Hilfiker, 2006-08-21 Edited by one of the leading experts in the field this handbook emphasizes why solid state issues are important which approaches should be taken to avoid problems and exploit the opportunities offered by solid state properties in the pharmaceutical and agricultural industries With its practical approach this is at once a guideline for development chemists just entering the field as well as a high quality source of reference material for specialists in the pharmaceutical and chemical industry structural chemists physicochemists crystallographers inorganic chemists and patent departments

Relationship Between Crystal Structure and Solid-state Properties of Pharmaceuticals Agam R. Sheth, 2004

Solid State Physics. Structure and Properties of

Materials Alauddin Khan, Shumsun Naher Begum, 2020-12-22 Document from the year 2020 in the subject Physics Other grade 4 00 very good language English abstract This volume has study of crystal structure the crystal bindings in solids free electron theory crystal defects color centers semiconductors and superconductivity is made to fulfill the requirements of different kinds of readers Electrical properties of metals especially band theory of solids magnetic properties of materials and dielectric properties of materials are discussed in details with fairness Magnetic properties of materials id est the classical theory of magnetism and the Quantum theory of magnetism have been discussed in two different Chapters In the same way the Classical statistical mechanics and the Quantum statistical mechanics have been discussed in two different chapters This volume has to present illustrative examples of both the ideas and the methods The book is intended as a text book on Solid State Physics for undergraduate graduate and Masters Levels and also as a reference book for anyone who is interested in this field of enquiry It is to be noted that the purpose of this book is to cover the basic principles and methods of Solid State Physics which are usually included in the course of teaching Physics at the undergraduate graduate and Masters Levels We hope that this book will be useful to the students and teachers in the different universities around the world

Role of

Water in the Solid-state Properties of Crystalline and Amorphous Sugars Azita Saleki-Gerhardt, 1993 **Effects of Solid-state Structure on the Tableting Properties of Pharmaceuticals** Yushi Feng, 2006 **Crystal Growth of Organic Materials** Allan S. Myerson, Daniel A. Green, Paul Meenan, 1996 Examines emerging technologies in the use of crystallization as a purification and separation process in the food pharmaceutical and commodity and specialty chemical industries Discusses the application of molecular modelling and calculation chemistry to crystallization Includes chapters focusing on crystal morphology and chirality **Relation Between Solid-state Properties and Pharmaceutical Quality of Generic Drug Raw Materials Available in South Africa** Erna Swanepoel, 2003 **Chinese University Bulletin** Chinese University of Hong Kong, 1990

Solid-State Chemistry of Inorganic Materials V: Volume 848 Materials Research Society.

Meeting, 2005-07-18 Solid state chemistry continues to span and to spawn multiple materials research areas attracting investigators from chemistry condensed matter physics materials science and engineering ceramics chemical engineering and mineralogy geology to name a few The common challenge is to understand and to predict structures and properties of new materials As with earlier volumes in this series from the Materials Research Society the presentations here represent interdisciplinary research from around the world and explore not only recent advances in the solid state chemistry of inorganic materials but also their impact on commercial applications The book covers a broad range of topics including synthesis and characterization of novel functional materials design and fabrication of nanostructures and nanomaterials crystal and structural chemistry catalysis gas separation and storage and magnetic and optical applications Both theoretical and computational studies of solid state inorganic materials are featured Joint presentations with solid state ionics are also particularly fruitful **Chinese University of Hong Kong, 1992 Solid-state Chemistry of Inorganic Materials**, 2005

Cellulose Chemistry and Technology ,1998

Computational Pharmaceutical Solid State Chemistry Yuriy A.

Abramov,2016-04-18 This book is the first to combine computational material science and modeling of molecular solid states for pharmaceutical industry applications Provides descriptive and applied state of the art computational approaches and workflows to guide pharmaceutical solid state chemistry experiments and to support troubleshoot API solid state selection Includes real industrial case examples related to application of modeling methods in problem solving Useful as a supplementary reference text for undergraduate graduate and postgraduate students in computational chemistry pharmaceutical and biotech sciences and materials science

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