



Solid State Chemistry: A Contemporary Overview

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N.S. Gajbhiye, S. K. Date



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Solid State Chemistry, 1980 Solid State Chemistry, 1980 □□□□□□□□□□□□□□□□□□□□ □□□□□□ (Japan), 1900

Solid-state Physics Source Book Sybil P. Parker, 1988

Milstein, Murray Robbins, American Chemical Society. Division of Inorganic Chemistry. Solid State Subdivision, 1980

ICAME 2007 N.S. Gajbhiye, S. K. Date, 2009-04-05 Disordered nature of structural arrangement in amorphous and nanocrystalline alloys gives rise to advantageous soft magnetic properties in particular from a practical application viewpoint 1 Especially nanocrystalline alloys attract a lot of scientific interest because contrary to their amorphous counterparts their magnetic parameters do not substantially deteriorate at elevated temperatures during the process of their practical exploitation To benefit from their unique magnetic properties the mechanism of crystallization should be known Here we present the study of structural transformation of NANOPERM type alloys by the help of Mössbauer spectrometry conventional X ray diffraction XRD and by an advanced diffraction of synchrotron radiation 2 Experimental Alloys of the composition Fe Mo Cu B for x 12 15 17 20 prepared by 91 x 8 1 x 57 rapid quenching on a rotating wheel were analyzed in the as cast state by Fe transmission Mössbauer spectrometry TMS and by conversion electron Mössbauer spectrometry CEMS The obtained as quenched ribbons were about 10 mm wide and 20 μ m thick The nanocrystalline state was achieved by annealing about 2 cm long samples for 1 h at temperatures up to 650 C in a vacuum Conventional XRD was performed with Cu K radiation in Bragg Brentano configuration with graphite monochromator in the diffracted beam Monochromatic synchrotron radiation of 7keV 0.178 nm provided at the KMC 2 beamline at BESSY Berlin was used for in situ examinations of structural transformations during continuous heat treatment

Hydrothermal Interactions of Cesium and Strontium Phases from Spent Unreprocessed Fuel with Basalt Phases and Basalts, 1980

Handbook of Crystal Growth Tatau Nishinaga, 2014-11-04 Volume I A Handbook of Crystal Growth 2nd Edition Fundamentals Thermodynamics and Kinetics Volume IA addresses the present status of crystal growth science and provides scientific tools for the following volumes Volume II Bulk Crystal Growth and III Thin Film Growth and Epitaxy Volume IA highlights thermodynamics and kinetics After historical introduction of the crystal growth phase equilibria defect thermodynamics stoichiometry and shape of crystal and structure of melt are described Then the most fundamental and basic aspects of crystal growth are presented along with the theories of nucleation and growth kinetics In addition the simulations of crystal growth by Monte Carlo ab initio based approach and colloidal assembly are thoroughly investigated Volume IB Handbook of Crystal Growth 2nd Edition Fundamentals Transport and Stability Volume IB discusses pattern formation a typical problem in crystal growth In addition an introduction to morphological stability is given and the phase field model is explained with comparison to experiments The field of nanocrystal growth is rapidly expanding and here the growth from vapor is presented as an example For the advancement of life science the crystal growth of protein and other biological molecules is indispensable and biological crystallization in nature gives many hints for their crystal

growth Another subject discussed is pharmaceutical crystal growth To understand the crystal growth in situ observation is extremely powerful The observation techniques are demonstrated Volume IA Explores phase equilibria defect thermodynamics of Si stoichiometry of oxides and atomistic structure of melt and alloys Explains basic ideas to understand crystal growth equilibrium shape of crystal rough smooth transition of step and surface nucleation and growth mechanisms Focuses on simulation of crystal growth by classical Monte Carlo ab initio based quantum mechanical approach kinetic Monte Carlo and phase field model Controlled colloidal assembly is presented as an experimental model for crystal growth Volume IIB Describes morphological stability theory and phase field model and comparison to experiments of dendritic growth Presents nanocrystal growth in vapor as well as protein crystal growth and biological crystallization Interprets mass production of pharmaceutical crystals to be understood as ordinary crystal growth and explains crystallization of chiral molecules Demonstrates in situ observation of crystal growth in vapor solution and melt on the ground and in space

Introduction to Modern Inorganic Chemistry, 6th edition R.A. Mackay, W. Henderson, 2017-12-21 This popular and comprehensive textbook provides all the basic information on inorganic chemistry that undergraduates need to know For this sixth edition the contents have undergone a complete revision to reflect progress in areas of research new and modified techniques and their applications and use of software packages Introduction to Modern Inorganic Chemistry begins by explaining the electronic structure and properties of atoms then describes the principles of bonding in diatomic and polyatomic covalent molecules the solid state and solution chemistry Further on in the book the general properties of the periodic table are studied along with specific elements and groups such as hydrogen the s elements the lanthanides the actinides the transition metals and the p block Simple and advanced examples are mixed throughout to increase the depth of students understanding This edition has a completely new layout including revised artwork case study boxes technical notes and examples All of the problems have been revised and extended and include notes to assist with approaches and solutions It is an excellent tool to help students see how inorganic chemistry applies to medicine the environment and biological topics

Inorganic Syntheses Leonard V. Interrante, 2009-09-22 The volumes in this continuing series provide a compilation of current techniques and ideas in inorganic synthetic chemistry Includes inorganic polymer syntheses and preparation of important inorganic solids syntheses used in the development of pharmacologically active inorganic compounds small molecule coordination complexes and related compounds Also contains valuable information on transition organometallic compounds including species with metal metal cluster molecules All syntheses presented here have been tested

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