

Solid State Chemistry

An Introduction



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Solid State Chemistry An Introduction

Anthony R. West



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Solid State Chemistry and Physics Paul F. Weller, 1973 *Solid State Chemistry: an Introduction* Aden Crowley, 2017-06-20 Solid state chemistry refers to that branch of chemistry which deals with the multidisciplinary study of the properties synthesis and structure of various solid state materials It is closely linked with other branches of chemistry like crystallography metallurgy solid state physics ceramics materials science thermodynamics and electronics etc This book explores all the important aspects of solid state chemistry in the present day scenario The topics covered in this extensive text deal with the core subjects of the subject Fundamental approaches evaluations and methodologies have been included in it This textbook is a complete source of knowledge on the present status of this important field **Solid State Chemistry** Lesley E. Smart, Elaine A. Moore, 1995-06-27 Intended for first and second year undergraduates this introduction to solid state chemistry includes practical examples of applications and modern developments to offer students the opportunity to apply their knowledge in real life situations It aims to provide students with a thorough understanding of the traditional knowledge of crystal structures lattices unit cells close packing and octahedral and tetrahedral holes and their occupation by various ions in the well known crystal structures This descriptive work is augmented by free electron and band theory Links to other branches of chemistry and practical examples are emphasized as are the links back to band theory and crystal structures For this second edition the book has been updated throughout and has two new chapters one on X ray diffraction techniques and another on solid state preparative methods as well as new sections on symmetry and ferroelectrics

Introduction to Solid State Chemistry James E. House, 2024-02-21 Introduction to Solid State Chemistry provides a strong

background to the structures of solids and factors that determine this structure The content presented will also stress transformations of solids both in physical forms and chemical composition In so doing topics such as phase transitions sintering reactions of coordination compounds photovoltaic compounds are described whilst kinetics and mechanisms of solid state reactions are covered in depth There are currently few books that deal with solid state chemistry where a considerable number instead deal with solid state physics and materials science engineering This book provides someone needing or wishing to learn about the chemistry of solids a comprehensive resource that describes structures of solids the behaviour of solids under applied stresses the types of reactions that solids undergo and the phenomenological aspects of reactions in solids Kinetics of reactions in solids is very seldom covered in current literature and an understanding of the mechanisms of reactions in solids is necessary for many applications James E House provides a balanced treatment of structure dynamics and behaviour of solids at a level commensurate with upper level undergraduates or beginning graduate students who wish to obtain an introduction and overview to solid state chemistry Provides a fundamental introduction and entry point to solid state chemistry acting as a useful prerequisite for further learning in the area Presents a balanced approach that not only emphasizes structures of solids but also provides information on reactions of solids and how they occur Gives much needed focus to the kinetics of reactions of solids and their mechanisms where existing literature covers little of this Explores crucial solid state chemistry topics such as solar energy conversion reactions of solid coordination compounds diffusion sintering and other transformations of solids Features accessible and well written examples and case studies featuring many new and bespoke supporting illustrations offering an excellent framework that will help students to understand reaction mechanisms

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Handbook of Solid State Chemistry, 6 Volume Set Richard Dronskowski, Shinichi Kikkawa, Andreas Stein, 2017-10-23 This most comprehensive and unrivaled compendium in the field provides an up to date account of the chemistry of solids nanoparticles and hybrid materials Following a valuable introductory chapter reviewing important synthesis techniques the handbook presents a series of contributions by about 150 international leading experts the Who's Who of solid state science Clearly structured in six volumes it collates the knowledge available on solid state chemistry starting from the synthesis and modern methods of structure determination Understanding and measuring the physical properties of bulk solids and the theoretical basis of modern computational treatments of solids are given ample space as are such modern trends as nanoparticles surface properties and heterogeneous catalysis Emphasis is placed throughout not only on the design and structure of solids but also on practical applications of these novel materials in real chemical situations

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