

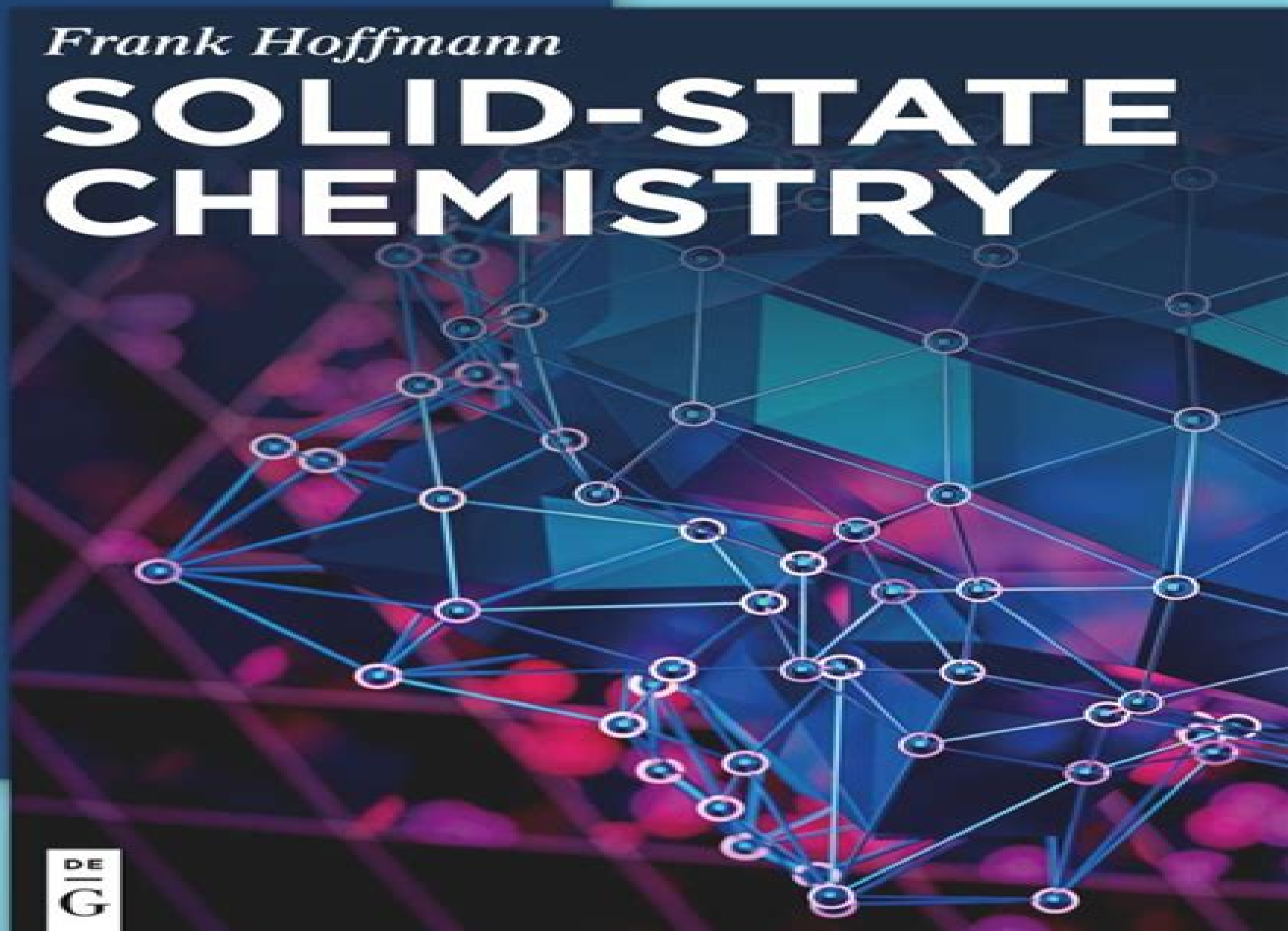
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Solid State Chemistry Elaine A. Moore, Lesley E. Smart, 2020-08-03 A comprehensive guide to solid state chemistry which is ideal for all undergraduate levels It covers well the fundamentals of the area from basic structures to methods of analysis but also introduces modern topics such as sustainability Dr Jennifer Readman University of Central Lancashire UK The latest edition of Solid State Chemistry combines clear explanations with a broad range of topics to provide students with a firm grounding in the major theoretical and practical aspects of the chemistry of solids Professor Robert Palgrave University College London UK Building a foundation with a thorough description of crystalline structures this fifth edition of Solid State Chemistry An Introduction presents a wide range of the synthetic and physical techniques used to prepare and characterise solids Going beyond this this largely nonmathematical introduction to solid state chemistry includes the bonding and electronic magnetic electrical and optical properties of solids Solids of particular interest porous solids superconductors and nanostructures are included Practical examples of applications and modern developments are given It offers students the opportunity to apply their knowledge in real life situations and will serve them well throughout their degree course New in the Fifth Edition A companion website which offers accessible resources for students and instructors alike featuring topics and tools such as quizzes videos web links and more A new chapter on sustainability in solid state chemistry written by an expert in this field Cryo electron microscopy X ray photoelectron spectroscopy ESCA Covalent organic frameworks Graphene oxide and bilayer graphene Elaine A Moore studied chemistry as an undergraduate at Oxford University and then stayed on to complete a DPhil in theoretical chemistry with Peter Atkins After a two year postdoctoral position at the University of Southampton she joined the Open University in 1975 becoming a lecturer in chemistry in 1977 senior lecturer in 1998 and reader in 2004 She retired in 2017 and currently has an honorary position at the Open University She has produced OU teaching texts in chemistry for courses at levels 1 2 and 3 and written texts in astronomy at level 2 and physics at level 3 She was team leader for the production and presentation of an Open University level 2 chemistry module delivered entirely online She is a Fellow of the Royal Society of Chemistry and a Senior Fellow of the Higher Education Academy She was co chair for the successful Departmental submission of an Athena Swan bronze award Lesley E Smart studied chemistry at Southampton University United Kingdom After completing a PhD in Raman spectroscopy she moved to a lectureship at the then Royal University of Malta After returning to the United Kingdom she took an SRC Fellowship to Bristol University to work on X ray crystallography From 1977 to 2009 she worked at the Open University chemistry department as a lecturer senior lecturer and Molecular Science Programme director and she held an honorary senior lectureship there until her death in 2016 At the Open University she was involved in the production of undergraduate courses in inorganic and physical chemistry and health sciences She served on the Council of the Royal Society of Chemistry and as the chair of their Benevolent Fund *Solid State Chemistry* Lesley E. Smart, Elaine A. Moore, 2005-06-24 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 The third edition of Solid State Chemistry An Introduction has been comprehensively revised and updated Building a foundation with a thorough description of crystalline structures the book presents a wide range of the synthetic and physical techniques used to prepare and characterize solids Other fundamental discussions include bonding superconductivity and electrochemical magnetic optical and conductive properties The authors have added sections on fuel cells and electrochromic materials conducting organic polymers organic superconductors and fullerenes mesoporous solids and ALPOs photonics giant magnetoresistance GMR and colossal magnetoresistance CMR and p wave triplet superconductors The book also includes a completely new chapter which examines the solid state chemical aspects of nanoscience Each chapter contains a set of review questions and an accompanying solutions manual is available Solid State Chemistry An Introduction Third Edition is written in a clear approachable style that enhances the material by integrating its concepts in the context of current applications and areas of promising research

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K Joshi, Ragunath A Mashelkar, 1995-02-28 Solid State Chemistry today is a frontier area of mainstream chemistry and plays a vital role in the development of materials The present work consisting of a selection of Prof C N R Rao's papers covers most of the important aspects of solid state chemistry and provides the flavor of the subject showing how the subject has evolved over the years The book is up to date and will be useful to students teachers beginning researchers and practitioners in solid state chemistry as well as in the broader area of materials science **New Directions in Solid State Chemistry**

Chintamani Nagesa Ramachandra Rao, Jagannatha Gopalakrishnan, 1986-11-06 This book presents the highlights of modern solid state chemistry an emerging area of chemical science In adopting a unified and up to date approach the authors take the reader to the very frontiers of the subject which is concerned primarily with new methods of synthesis identification and characterization of solids and above all with new strategies for tailor making materials with desirable and controllable properties The eight chapters are devoted to structure methods of characterization preparative strategies phase transitions defects and non stoichiometry structure property relations materials design and reactivity of solids Each of these reflects the way solid state chemistry is growing today and brings out the flavour of the subject to show how it works In addition every chapter ends with a list of important references Solid State Chemistry 10, 2005 *Solid State Chemistry* Lesley

Smart, 1993 **Solid State Chemistry and Physics** Paul F. Weller, **Treatise on Solid State Chemistry** N. B. Hannay, 1976-06 *Treatise on Solid State Chemistry* N. B. Hannay, 1973 Solid State Chemistry A. Wold, K.

Dwight, 1993-06-30 The subject matter of solid state chemistry lies within the spheres of both physical and inorganic chemistry In addition there is a large overlap with solid state physics and materials engineering However solid state chemistry has still to be recognized by the general body of chemists as a legitimate subfield of chemistry The discipline is not even well defined as to content and has many facets that make writing a textbook a formidable task The early studies carried out in the United States by Roland Ward and his co workers emphasized the synthesis of new materials and the determination of their structure His work on doped alkaline earth sulfides formed the basis for the development of infrared phosphors and his pioneering studies on oxides were important in understanding the structural features of both the perovskite oxides as well as the magnetoplumbites In 1945 A F Wells published the first edition of Structural Inorganic Chemistry This work attempts to demonstrate that the synthesis structure and properties of solids form an important part of inorganic chemistry Now after almost 50 years during which many notable advances have been made in solid state chemistry it is still evident that the synthesis structure determination and properties of solids receive little attention in most treatments of inorganic chemistry The development of the field since the early studies of Roland Ward early 1940s has been rapid *Progress in Solid State Chemistry*, 1967 *Solid state chemistry* Chintamani Nagesa Ramachandra Rao, 1984 *Solid State Chemistry*, 2011

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addition of new material on numerous topics In recent years solid state chemistry has emerged as a very important element of mainstream chemistry and materials science Students teachers and researchers need to understand the chemistry of solids because of the crucial role this plays in determining the properties of materials An understanding of solid state chemistry is also essential in materials design and many fascinating relationships between the structure and properties of solids have been discovered by chemists This text requires only an understanding of basic physics chemistry and crystallography and is enhanced with the most recent examples case studies and references It will be of value to advanced students and researchers studying solid state chemistry and materials science as a text and reference work *Solid State Chemistry and Its Applications* Anthony R. West,2009 **Basic Solid State Chemistry** Anthony R. West,1984

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