

Structure and Bonding 139
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Principles and Recent Developments

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Structure And Bonding

Riccardo Freccero



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realization of multifunctional devices and monolithic integration of materials and devices Intended for a multidisciplinary audience *Integration of Functional Oxides with Semiconductors* describes processing techniques that enable atomic level control of stoichiometry and structure and reviews characterization techniques for films interfaces and device performance parameters Fundamental challenges involved in joining covalent and ionic systems chemical interactions at interfaces multi element materials that are sensitive to atomic level compositional and structural changes are discussed in the context of the latest literature Magnetic ferroelectric and piezoelectric materials and the coupling between them will also be discussed GaN SiC Si GaAs and Ge semiconductors are covered within the context of optimizing next generation device performance for monolithic device processing

Coordination Chemistry of Silicon Prof. Dr. Shigeyoshi Inoue, 2019-03-04 The chemistry of silicon has always been a field of major concern due to its proximity to carbon on the periodic table From the molecular chemist's viewpoint one of the most interesting differences between carbon and silicon is their divergent coordination behavior In fact silicon is prone to form hyper coordinate organosilicon complexes and as conveyed by reports in the literature highly sophisticated ligand systems are required to furnish low coordinate organosilicon complexes Tremendous progress in experimental as well as computational techniques has granted synthetic access to a broad range of coordination numbers for silicon and the scientific endeavor which was ongoing for decades was rewarded with landmark discoveries in the field of organosilicon chemistry Molecular congeners of silicon 0 as well as silicon oxides were unveiled and the prominent group 14 metalloid proved its applicability in homogenous catalysis as a supportive ligand or even as a center of catalytic activity This book focuses on the most recent advances in the coordination chemistry of silicon with transition metals as well as main group elements including the stabilization of low valent silicon species through the coordination of electron donor ligands Therefore this book is associated with the development of novel synthetic methodologies structural elucidations bonding analysis and also possible applications in catalysis or chemical transformations using related organosilicon compounds

Functional Molecular Silicon Compounds II David Scheschkewitz, 2014-07-08 The series *Structure and Bonding* publishes critical reviews on topics of research concerned with chemical structure and bonding The scope of the series spans the entire Periodic Table and addresses structure and bonding issues associated with all of the elements It also focuses attention on new and developing areas of modern structural and theoretical chemistry such as nanostructures molecular electronics designed molecular solids surfaces metal clusters and supramolecular structures Physical and spectroscopic techniques used to determine examine and model structures fall within the purview of *Structure and Bonding* to the extent that the focus is on the scientific results obtained and not on specialist information concerning the techniques themselves Issues associated with the development of bonding models and generalizations that illuminate the reactivity pathways and rates of chemical processes are also relevant The individual volumes in the series are thematic The goal of each volume is to give the reader whether at a university or in industry a comprehensive overview of an area where

new insights are emerging that are of interest to a larger scientific audience. Thus each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole. The most significant developments of the last 5 to 10 years should be presented using selected examples to illustrate the principles discussed. A description of the physical basis of the experimental techniques that have been used to provide the primary data may also be appropriate if it has not been covered in detail elsewhere. The coverage need not be exhaustive in data but should rather be conceptual, concentrating on the new principles being developed that will allow the reader who is not a specialist in the area covered to understand the data presented. Discussion of possible future research directions in the area is welcomed. Review articles for the individual volumes are invited by the volume editors. Readership: research scientists at universities or in industry; graduate students. Special offer for all customers who have a standing order to the print version of *Structure and Bonding*: we offer free access to the electronic volumes of the Series published in the current year via SpringerLink.

Study of New Ternary Rare-Earth Intermetallic Germanides with Polar Covalent Bonding Riccardo Freccero, 2020-11-16. The thesis focuses on the syntheses, structural characterizations and chemical bonding analyses for several ternary R-M-Ge (R: rare earth metal; M: another metal) intermetallics. The challenges in understanding the main interactions governing the chemistry of these compounds, which lead to our inability to predict their formation, structure and properties, are what provided the motivation for this study. In particular, the R_2MGe_6 (M: Li, Mg, Al, Cu, Zn, Pd, Ag), R_4MGe_{10} (x: M: Li, Mg), $R_2Pd_3Ge_5$, $Lu_5Pd_4Ge_8$, $Lu_3Pd_4Ge_4$ and Yb_2PdGe_3 phases were synthesized and structurally characterized. Much effort was put into the stabilization of metastable phases employing the innovative metal flux method and into the accurate structure solution of twinned crystals. Cutting edge position space chemical bonding techniques were combined with new methodologies conceived to correctly describe the Ge-M-Ge-La and also La-M polar covalent interactions for the La_2MGe_6 (M: Li, Mg, Al, Cu, Zn, Pd, Ag) series. The present results constitute a step forward in our comprehension of ternary germanide chemistry as well as providing a good playground for further investigations.

Electron Density and Chemical Bonding II Dietmar Stalke, 2012-06-05. T. Koritsanszky, A. Volkov, M. Chodkiewicz: New Directions in Pseudopotential Based X-Ray Charge Density Analysis; B. Dittrich, D. Jayatilaka: Reliable Measurements of Dipole Moments from Single Crystal Diffraction Data and Assessment of an In-Crystal Enhancement; B. Engels, Th. C. Schmidt, C. Gatti, T. Schirmeister, R. F. Fink: Challenging Problems in Charge Density Determination: Polar Bonds and Influence of the Environment; S. Fux, M. Reiher: Electron Density in Quantum Theory; K. Meindl, J. Henn: Residual Density Analysis; C. Gatti: The Source Function Descriptor as a Tool to Extract Chemical Information from Theoretical and Experimental Electron Densities.

Intermetallics Rainer Pöttgen, Dirk Johrendt, 2019-07-22. The expanded edition focuses still more on Synthesis, discussing necessary requirements for sample preparation and presents the broad range from structural analysis to property investigations. Additional examples of chemical and physical properties are highlighted for metallic binary and multinary intermetallic compounds. The work contains an up-to-date literature overview in all sub-chapters.

and a detailed formulae index **Inorganic 3D Structures** Angel Vegas, 2011-06-21 D Santamaría Pérez and F Liebaut
 Structural relationships between intermetallic clathrates porous tectosilicates and clathrate hydrates Vladislav A Blatov
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 Towards a Unified Vision of Inorganic Solids *Comprehensive Inorganic Chemistry II*, 2013-07-23 Comprehensive
 Inorganic Chemistry II Nine Volume Set reviews and examines topics of relevance to today's inorganic chemists Covering
 more interdisciplinary and high impact areas Comprehensive Inorganic Chemistry II includes biological inorganic chemistry
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 chemistry solid state chemistry and nanoscience Inorganic chemistry is rapidly developing which brings about the need for a
 reference resource such as this that summarise recent developments and simultaneously provide background information
 Forms the new definitive source for researchers interested in elements and their applications completely replacing the highly
 cited first edition which published in 1973 **50th Anniversary of Electron Counting Paradigms for Polyhedral
 Molecules** D. Michael P. Mingos, 2022-01-01 The 50 Year Anniversary of the development of electron counting paradigms is
 celebrated in two volumes of Structure and Bonding Volume 2 covers applications to metal and metalloid clusters of the
 transition and post transition elements Introduction to Crystal Growth and Characterization Klaus-Werner Benz, Wolfgang
 Neumann, 2014-07-28 This new textbook provides for the first time a comprehensive treatment of the basics of contemporary
 crystallography and crystal growth in a single volume The reader will be familiarized with the concepts for the description of

morphological and structural symmetry of crystals The architecture of crystal structures of selected inorganic and molecular crystals is illustrated The main crystallographic databases as data sources of crystal structures are described Nucleation processes their kinetics and main growth mechanism will be introduced in fundamentals of crystal growth Some phase diagrams in the solid and liquid phases in correlation with the segregation of dopants are treated on a macro and microscale Fluid dynamic aspects with different types of convection in melts and solutions are discussed Various growth techniques for semiconducting materials in connection with the use of external field magnetic fields and microgravity are described Crystal characterization as the overall assessment of the grown crystal is treated in detail with respect to crystal defects crystal quality field of application Introduction to Crystal Growth and Characterization is an ideal textbook written in a form readily accessible to undergraduate and graduate students of crystallography physics chemistry materials science and engineering It is also a valuable resource for all scientists concerned with crystal growth and materials engineering Electron Density and Chemical Bonding I Dietmar Stalke, 2012-06-05 D Stalke U Flierler More than Just Distances from Electron Density Studies A O Madsen Modeling and Analysis of Hydrogen Atoms B B Iversen J Overgaard Charge Density Methods in Hydrogen Bond Studies U Flierler D Stalke Some Main Group Chemical Perceptions in the Light of Experimental Charge Density Investigations D Leusser Electronic Structure and Chemical Properties of Lithium Organics Seen Through the Glasses of Charge Density L J Farrugia P Macchi Bond Orders in Metal Metal Interactions Through Electron Density Analysis W Scherer V Herz Ch Hauf On the Nature of Agostic Interactions A Comparison Between the Molecular Orbital and Charge Density Picture **Rare Earth Chemistry** Rainer Pöttgen, Thomas Jüstel, Cristian A. Strassert, 2020-10-26 This work introduces into the chemistry materials science and technology of Rare Earth Elements The chapters by experienced lecturers describe comprehensively the recent studies of their characteristics properties and applications in functional materials Due to the broad range of covered topics as hydrogen storage materials LEDs or permanent magnets this work gives an up to date presentation of this fascinating research **Molecular Electronic Structures of Transition Metal Complexes II** David Michael P. Mingos, Peter Day, Jens Peder Dahl, 2012-01-11 T Ziegler A Chronicle About the Development of Electronic Structure Theories for Transition Metal Complexes J Linderberg Orbital Models and Electronic Structure Theory J S and J E Avery Sturmians and Generalized Sturmians in Quantum Theory B T Sutcliffe Chemistry as a Manifestation of Quantum Phenomena and the Born Oppenheimer Approximation A J McCaffery From Ligand Field Theory to Molecular Collision Dynamics A Common Thread of Angular Momentum M Atanasov D Ganyushin K Sivalingam and F Neese A Modern First Principles View on Ligand Field Theory Through the Eyes of Correlated Multireference Wavefunctions R S Berry and B M Smirnov The Phase Rule Beyond Myopia to Understanding *Superatoms* Puru Jena, Qiang Sun, 2021-11-30 Explore the theory and applications of superatomic clusters and cluster assembled materials Superatoms Principles Synthesis and Applications delivers an insightful and exciting exploration of an emerging subfield in cluster science superatomic

clusters and cluster assembled materials The book presents discussions of the fundamentals of superatom chemistry and their application in catalysis energy materials science and biomedical sciences Readers will discover the foundational significance of superatoms in science and technology and learn how they can serve as the building blocks of tailored materials promising to usher in a new era in materials science The book covers topics as varied as the thermal and thermoelectric properties of cluster based materials and clusters for CO₂ activation and conversion before concluding with an incisive discussion of trends and directions likely to dominate the subject of superatoms in the coming years Readers will also benefit from the inclusion of A thorough introduction to the rational design of superatoms using electron counting rules Explorations of superhalogens endohedrally doped superatoms and assemblies and magnetic superatoms A practical discussion of atomically precise synthesis of chemically modified superatoms A concise treatment of superatoms as the building blocks of 2D materials as well as superatom based ferroelectrics and cluster based materials for energy harvesting and storage Perfect for academic researchers and industrial scientists working in cluster science energy materials thermoelectrics 2D materials and CO₂ conversion Superatoms Principles Synthesis and Applications will also earn a place in the libraries of interested professionals in chemistry physics materials science and nanoscience

Molecular Electronic Structures of Transition Metal Complexes I David Michael P. Mingos, Peter Day, Jens Peder Dahl, 2012-01-11 J P Dahl Carl Johan Ballhausen 1926 2010 J R Winkler and H B Gray Electronic Structures of Oxo Metal Ions C D Flint Early Days in Kemisk Laboratorium IV and Later Studies J H Palmer Transition Metal Corrole Coordination Chemistry A Review Focusing on Electronic Structural Studies W C Trogler Chemical Sensing with Semiconducting Metal Phthalocyanines K M Lancaster Biological Outer Sphere Coordination R K Hocking and E I Solomon Ligand Field and Molecular Orbital Theories of Transition Metal X ray Absorption Edge Transitions K B M ller and N E Henriksen Time resolved X ray diffraction The dynamics of the chemical bond

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