

8.2 The Nature of Covalent Bonding

Essential Understanding

Covalent bonds form when atoms share electrons.

Lesson Summary

The Octet Rule in Covalent Bonding

Covalent compounds are most stable when each atom has eight electrons.

- ▶ Single, double, and triple covalent bonds depend on the number of pairs of electrons shared between two atoms.
- ▶ Atoms form double or triple covalent bonds if they can attain a noble gas structure by doing so.

Type of Covalent Bond	Attributes
Single	One shared electron pair with one electron from each atom
Double	Two shared electron pairs with two electrons from each atom
Triple	Three shared electron pairs with three electrons from each atom

Coordinate Covalent Bonds In a coordinate covalent bond, one atom contributes both electrons in the bonding pair.

- ▶ One atom may contribute a pair of unshared electrons to a bond to give both atoms an inert gas configuration.
- ▶ Coordinate covalent bonds can also occur in polyatomic ions, such as NH_4^+ .

Exceptions to the Octet Rule Some molecules have fewer, or more, than a complete octet of valence electrons.

- ▶ Molecules that have an odd number of total valence electrons cannot satisfy the octet rule.
- ▶ Some molecules that have an even number of valence electrons may also fail to follow the octet rule.

The Nature Of Covalent Bonding 16 Worksheet

Cornelis Klein, Barbara Dutrow



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Fundamentals of Biomaterials Vasif Hasirci, Nesrin Hasirci, 2018-11-26 This text for advanced undergraduate and graduate students covers the fundamental relationships between the structure and properties of materials and biological tissues. The successful integration of material and biological properties shape and architecture to engineer a wide range of optimized designs for specific functions is the ultimate aim of a biomaterials scientist. Relevant examples illustrate the intrinsic and tailored properties of metal ceramic polymeric carbon derived composite and naturally derived biomaterials. Fundamentals of Biomaterials is written in a single voice ensuring clarity and continuity of the text and content. As a result the reader will be gradually familiarized with the field starting with materials and their properties and eventually leading to critical interactions with the host environment. Classical and novel examples illuminate topics from basic material properties to tissue engineering nanobiomaterials and guided tissue regeneration. This comprehensive and engaging text integrates materials and biological properties to understand biomaterials function and design, provides the basics of biological tissue components and hierarchy, includes recent topics from tissue engineering and guided tissue regeneration to nanoarchitecture of biomaterials and their surfaces, contains perspectives, case studies from widely recognized experts in the field, features chapter ending summaries to help readers to identify the key take home messages.

Student Study Guide Peter L. Kresan, Reed Mencke, Frank Press, Raymond Siever, 2003-09-25 This reconceptualization of the text Understanding Earth reflects the fundamental changes in the field of physical geology over the past several years.

Functional Tactile Sensors Ye Zhou, Ho-Hsiu Chou, 2021-01-20 Functional Tactile Sensors: Materials, Devices, and Integrations focuses on the subject of novel materials design and device integration of tactile sensors for functional applications. The book addresses the design, materials characteristics, device operation principles, specialized device application, and mechanisms of the latest reported tactile sensors. The emphasis of the book lies in the materials science aspects of tactile sensors, understanding the relationship between material properties and device performance. It will be an ideal resource for researchers working in materials science, engineering, and physics. Includes the latest advances and recent developments in tactile sensors for artificial intelligence applications. Reviews the relationship between materials properties and device performance. Addresses materials and device design strategies for targeted sensing applications.

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Handbook of Biopolymers Sabu Thomas,Ajitha AR,Cintil Jose Chirayil,Bejoy

Thomas,2023-04-29 This book on biopolymers offers a comprehensive source for biomaterial professionals It covers all elementary topics related to the properties of biopolymers the production and processing of biopolymers applications of biopolymers examples of biopolymers and the future of biopolymers Edited by experts in the field the book highlights international professionals longstanding experiences and addresses the requirements of practitioners and newcomers in this

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Atkins' Physical Chemistry Peter William Atkins, Julio de Paula, 2014-03
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Interface / Interphase in Polymer Nanocomposites

Anil N. Netravali, K. L. Mittal, 2016-11-29 Significant research has been done in polymeric nanocomposites and progress has been made in understanding nanofiller polymer interface and interphase and their relation to nanocomposite properties. However, the information is scattered in many different publication media. This is the first book that consolidates the current knowledge on understanding characterization and tailoring interfacial interactions between nanofillers and polymers by bringing together leading researchers and experts in this field to present their cutting edge research. Eleven chapters authored by senior subject specialists cover topics including Thermodynamic mechanisms governing nanofiller dispersion engineering of interphase with nanofillers Role of interphase in governing the mechanical electrical thermal and other functional properties of nanocomposites characterization and modelling of the interphase Effects of crystallization on the interface chemical and physical techniques for surface modification of nanocellulose reinforcements Electro micromechanical and nanoindentation techniques for interface evaluation molecular dynamics MD simulations to quantify filler matrix adhesion and nanocomposite mechanical properties

Enzyme Inactivation in Food Processing Megh R. Goyal, Junaid Ahmad Malik, Ravi Pandiselvam, 2023-08-04 Enzyme inactivation in fruits and vegetables is of utmost importance regarding food quality during storage. This new volume explores important emerging technologies for the inactivation of enzymes in the design and preservation of food. The book covers the basic concepts and chemical methods and then introduces novel processing technologies for inactivating food enzymes. The new technologies are many pulsed electric field ultraviolet and light emitting diodes ohmic heating dense phased carbon dioxide cold plasma ultrasonication microwave processing radiofrequency extraction and others. The volume also looks at the design of nutraceutical based functional foods specific foods for gut microbiota the use of omega 3 fatty acids to fortify food products and the characteristics of dairy based dry powders and characteristics of millet starches. It also considers the role of the bioactive compounds and metal ions for catalases secreted by medicinal plants and mushrooms for enzyme inactivation and biosensing along with the role of bionanomaterials in nanoencapsulation and catalysis

Industrial Applications of Marine Biopolymers Parappurath Narayanan Sudha, 2017-07-06 Industrial Applications of Marine Biopolymers presents different classes of marine biopolymers and their industrial applications demonstrating the precious value of ocean resources to society. This timely volume discusses the exceedingly useful polymers derived from these materials that are biodegradable biocompatible and at times water soluble. Direct use or chemically modified forms of such biomaterials have many chemical sites making them suitable for varied types of industrial applications. In addition, this book also addresses current global challenges of conservation including extended drought conditions and the need for improved agricultural methods together with new bio medical developments. It is suitable for anyone who has an interest in the industrial applications of biopolymers

Manual of Mineral Science Cornelis Klein, Barbara Dutrow, 2007-02-20 First published in 1848 authored by J D Dana the Manual of Mineral Science now enters its 23rd edition. This new edition continues in the footsteps of its predecessors as the standard textbook

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Biomaterials Joyce Y. Wong, Joseph D. Bronzino, 2007-06-07 For medical devices that must be placed inside the body the right choice of material is the most important aspect of design To ensure such devices are safe reliable economical and biologically and physiologically compatible the modern biomedical engineer must have a broad knowledge of currently available materials and the properties that affect

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Foundations of Nanotechnology, Volume Three Saeedeh Rafiei, 2015-05-08 In this research notes book the modelling of mechanical properties of CNT polymer nanocomposites is presented The book begins with the structural and intrinsic mechanical properties of CNTs and then introduces computational methods that have been applied to polymer nanocomposites covering from molecular scale molecular dynamics Monte Carlo

Scientific and Technical Aerospace Reports, 1987 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

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computational modelling and numerical simulation tools and confirmed by modern experimental techniques It begins by summarizing basic theoretical methods then giving both a theoretical and experimental treatment of how alkali metal clusters develop into nanostructures as influenced by the cluster's magic number of atoms The book continues with a discussion of atomic clusters and nanostructures focusing primarily on boron and carbon exploring in detail the one two and three dimensional structures of boron and carbon and describing their myriad potential applications in nanotechnology from nanocoating and nanosensing to nanobatteries with high borophene capacity The broad discussion of computational modelling as well as the specific applications to boron and carbon make this book an essential reference resource for materials scientists in this field of research

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