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as simple metals and crystals consisting of atoms. On the other hand, textbooks on solid-state chemistry often avoid descriptions of theoretical background even at the simplest level. This book gives coherent descriptions from intermolecular interaction up to properties of condensed matter ranging from isotropic liquids to molecular crystals. By omitting details of specific systems for which comprehensive monographs are available—on liquid

crystals and molecular conductors, for instance—this book highlights the effects of molecular properties, i.e., the presence of the shape and its deformation on the structure and properties of molecular systems.

### **Kaplan MCAT General Chemistry Review**

Ibrahim sikder

India's nuclear program is often misunderstood as an inward-looking endeavor of secretive technocrats. In *Ploughshares and Swords*, Jayita Sarkar challenges this received wisdom,

narrating a global story of India's nuclear program during its first forty years. The book foregrounds the program's civilian and military features by probing its close relationship with the space program. Through nuclear and space technologies, India's leaders served the technopolitical aims of economic modernity and the geopolitical goals of deterring adversaries. The politically savvy, transnationally connected scientists and engineers who steered the program

obtained technologies, materials, and information through a variety of state and nonstate actors from Europe and North America, including both superpowers. They thus maneuvered around Cold War politics and the choke points of the nonproliferation regime. Hyperdiversification increased choices for the leaders of the nuclear program but reduced democratic accountability at home. The nuclear program became a consensus-enforcing device in the name of the

nation. Ploughshares and Swords is a provocative new history with global implications. It shows how geopolitical and technopolitical visions influence decisions about the nation after decolonization. Thanks to generous funding from the Swiss National Science Foundation, the ebook editions of this book are available as Open Access volumes from Cornell Open ([cornellpress.cornell.edu/cornell-open](http://cornellpress.cornell.edu/cornell-open)) and other repositories.

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Development of Chemistry New Age International After Completing Four Decades Of Its Publication (1St Ed. 1961), The Book Passed Through Eight Editions Plus One Reprint And Has Now Appeared On The Academic Scenario With A Fresh New Look. This New Edition Has Been Thoroughly Recast And Updated In Tune With The Literature Explosion In The Subject So That It Can Confidently Meet The Fast Growing Requirements Of The College Students All

Over India. It Is Designed To Serve The Larger Sections Of The Students And Teaching Community Of All Over India. The Book Is Intended For B.Sc. Students Of Indian Universities. It Will Also Serve The Purpose Of B.Sc. Tech And Engineering (Chemical) Students. The New Edition Is Likely To Surpass Its Past Record Of Service And Popularity And Continue Its Mission Of Promoting The Cause Of Chemical Education In The Country.

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An Introduction to Chemistry is intended for use in beginning chemistry courses that have no chemistry prerequisite. The text was written for students who want to prepare themselves for general college chemistry, for students seeking to satisfy a science requirement for graduation, and for students in health-related or other programs that require a one-semester introduction to general chemistry.

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### A Chemical Catechism.

With notes and an appendix Bushra Arshad First published in 1967. The impression is sometimes given that the Atomic Theory was revived in the early years of the nineteenth century by John Dalton, and that continuously from then on it has played a vital role in chemistry. The aim of this study is to revise this over-simplified picture. Atomic explanations seemed to chemists to go beyond the facts, to fail to lend themselves to mathematical expression, and to deny the ultimate

simplicity and unity of all matter. Most, therefore, rejected them. Meanwhile, physicists were developing a whole range of atomic theories to explain the physical properties of bodies in terms of very simple atoms or particles. During the last thirty years of the century the position changed, as physicists and chemists came to agree on a common atomic theory. But the last prominent opponents of atomism were not converted until the early years of the twentieth

century, by which time studies of radioactivity had made it clear that the billiard-ball Daltonian atom must, in any case, be abandoned.

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#### Intermetallic Chemistry

Royal Society of Chemistry

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#### Molecular Aggregation

Bushra Arshad  
Introduction to Computational Chemistry, Second Edition provides a comprehensive account of the fundamental principles underlying different methods, ranging from classical to the sophisticated.

Although comprehensive in its coverage, this textbook focuses on calculating molecular structures and (relative) energies and less on molecular properties or dynamical aspects. No prior knowledge of concepts specific to

computational chemistry are assumed, but the reader will need some understanding of introductory quantum mechanics, linear algebra, and vector, differential and integral calculus.

#### High School Chemistry Brooks Cole

This study focuses on the French chemists of 1830-1858, and their roles in the development of organic chemistry and its eventual connection with atomic and valence-bond theory, and uncovers new complexities in the

thought processes that led to the concept of valence. The exploration of Laurent's early career reveals that this French chemist had proposed a hypothesis to explain phenomena due to valence fifteen years before August Kekule's Exposition of the classic valence-bond theory in 1858. Laurent put forward a hypothesis supposing the dividibility of atoms at a time when such a theory was far removed from the possibility of experimentation. Within the positivist philosophy

which prevailed at the time, few besides him would have dared to advance such a hypothesis. Laurent's hypothesis influenced certain advances in his chemistry, and that of his close associate, Charles Gerhardt, and eventually these advances helped turn most chemists to atomism.

**The First Step in Chemistry** John Wiley & Sons  
 "High School Chemistry" is an outline of notes. It was provided to chemistry students so they could

focus on the material being presented and not be burdened by drawing charts, copying definitions, writing problems, etc. Recently, Mr. Buben began adding his instructional notes via a "Teacher's Edition." The books go hand-in-hand, "[Modified] Second Edition" as a student's workbook and a "Teacher's Edition" for guidance.  
*Chemical Physics of Molecular Condensed Matter* Cornell University Press  
 Intermetallic science is

closely related to physics, chemistry, metallurgy, materials science & technology, and engineering. This book emphasizes the chemical aspects of this science, and therefore the mutual reactivity of metals and the characteristics of intermetallic compounds. Topics included are: • Phase diagrams of alloy systems. Many intermetallic systems form several compounds, generally not obeying common simple stoichiometric rules, which are often

homogeneous in a certain range of compositions. The stability and extension of these phases are conveniently presented through phase diagrams. • Selected aspects of intermetallic structural chemistry, with emphasis on the solid state. The general structural characteristics of intermetallic phases are considered, with attention to nomenclature and to alternative and complementary methods of presenting crystal-chemical data. A brief account is given of

derivative and degenerate structures, modular aspects of crystal structures, and of a few special groups of alloys such as quasicrystals and amorphous alloys. A number of selected structural prototypes with typical features, their possible grouping in structural "families and their distribution among different types of alloys are provided. • Intermetallic reactivity trends in the Periodic Table. Attention is given to a few selected elemental parameters

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and nuclear science most

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the United States' use of  
nuclear technology.

Instead of profiling individuals, Oatsvall focuses on executive institutions, especially the leadership of the Atomic Energy Commission (AEC) and high level officials in the Truman and Eisenhower White Houses, including the presidents, themselves. By scrutinizing institutional policymaking practices and agendas at the birth of the nuclear age, a constant set of values becomes clear: "Atomic Environments" reveals an emerging technocratic class that consistently

valued knowledge about the environment to help create and maintain a nuclear arsenal, despite its existential threat to life on earth and the negative effects many nuclear technologies directly had on ecosystems and the American people, alike. "Atomic Environments" is divided into five chapters, each of which probes a different facet of the entanglement between environment, nuclear technologies, and policymaking. The first three chapters form a rough narrative arc about

nuclear weapons. Chapter One situates bombs in their "natural habitat" by considering why nuclear tests occurred where they did and what testers thought they revealed about the natural environment and how they influenced it. Focusing on nuclear fallout, Chapter Two argues that nuclear tests actually functioned as a massive, uncontrolled experiment in world environments and human bodies that intermingled medicine, nuclear science, and environmental

science. Chapter Three shows how the environmental knowledge gained in the first two chapters led to nuclear test ban treaty talks during the Eisenhower era, when the advancement of environmental knowledge and the natural world itself became crucial grounds of contention in the creation of nuclear test detection and evasion systems. The last two chapters step away from weapons to question how other nuclear technologies and facets of

the U.S. nuclear program interacted with the natural world. Chapter Four examines agriculture's place in the U.S. nuclear program, from breakthrough advances in agricultural science including the use of radioisotopes and the direct application of radiation to food, to "atomic agriculture's" public relations value as a peaceful proxy, which shifted the moral calculus and further leveraged the U.S. government's atomic power. Chapter Five shows how knowledge of

the natural world and the functioning of its systems proved important to uncovering the most effective ways to dispose of nuclear waste. Running throughout, Oatsvall consistently demonstrates how the natural world and the scientific disciplines that study it became integral parts of nuclear science, rather than adversarial fields of knowledge. But while nuclear technologies heavily depended on environmental science to develop, those same technologies frequently

caused great harm to the natural world. Moreover, while some individuals expressed real anxieties about the damage wrought by nuclear technologies, policymakers as a class consistently made choices that privileged nuclear boosterism and secrecy, prioritizing institutional values over the lives and living systems that agencies like the AEC were ostensibly charged to protect. In the end, Oatsvall argues that although policymakers took their charge to

protect and advance the welfare of the United States and its people seriously, they often failed to do so because their allegiance to the U.S. nuclear hierarchy blinded them to the real risks and dangers of the nuclear age"--

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**Book** Simon and Schuster All existing introductory reviews of mineralogy are written according to the same algorithm,

sometimes called the "Dana System of Mineralogy". Even modern advanced handbooks, which are certainly necessary, include basic data on minerals and are essentially descriptive. When basic information on the chemistry, structure, optical and physical properties, distinguished features and paragenesis of 200-400 minerals is presented, then there is practically no further space available to include new ideas and concepts based on recent mineral studies. A



possible solution to this dilemma would be to present a book beginning where introductory textbooks end for those already familiar with the elementary concepts. Such a volume would be tailored to specialists in all fields of science and industry, interested in the most recent results in mineralogy. This approach

may be called Advanced Mineralogy. Here, an attempt has been made to survey the current possibilities and aims in mineral matter investigations, including the main characteristics of all the methods, the most important problems and topics of mineralogy, and related studies. The

individual volumes are composed of short, condensed chapters. Each chapter presents in a complete, albeit condensed, form specific problems, methods, theories, and directions of investigations, and estimates their importance and strategic position in science and industry.

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