

## Libro Di Chimica Inorganica

In his highly anticipated sequel to *The Elements*, Theodore Gray demonstrates how the elements of the periodic table combine to form the molecules that make up our world. Everything physical is made up of the elements and the infinite variety of molecules they form when they combine with each other. In *Molecules*, Theodore Gray takes the next step in the grand story that began with the periodic table in his best-selling book, *The Elements: A Visual Exploration of Every Known Atom in the Universe*. Here, he explores through fascinating stories and trademark stunning photography the most interesting, essential, useful, and beautiful of the millions of chemical structures that make up every material in the world. Gray begins with an explanation of how atoms bond to form molecules and compounds, as well as the difference between organic and inorganic chemistry. He then goes on to explore the vast array of materials molecules can create, including: soaps and solvents; goops and oils; rocks and ores; ropes and fibers; painkillers and dangerous drugs; sweeteners; perfumes and stink bombs; colors and pigments; and controversial compounds including asbestos, CFCs, and thimerosal. Big, gorgeous photographs, as well as diagrams of the compounds and their chemical bonds, rendered with never before seen beauty, fill the pages and capture molecules in their various states. As he did in *The Elements*, Gray shows us molecules as we've never seen them before. It's the perfect book for his loyal fans who've been eager for more and for anyone fascinated with the mysteries of the material world.

Il fine di questo libro, la cui prima edizione risale all'anno 2002, è quello di fornire agli studenti dei corsi di chimica del primo anno dei corsi di laurea di primo livello delle varie facoltà universitarie uno strumento valido, e nello stesso tempo semplice, per lo studio della chimica di base. Nella prima edizione erano stati trattati solo gli argomenti fondamentali della Chimica Generale, tralasciando altri argomenti, che non rientravano nei programmi di un corso di laurea triennale. Il libro fu accolto dagli studenti con molto favore e negli anni successivi si resero necessarie tre nuove edizioni allo scopo di rivedere alcuni contenuti anche perché, nel frattempo, gli ordinamenti didattici dei corsi di laurea avevano subito delle modifiche, soprattutto per quanto riguardava il numero dei crediti formativi assegnati alle varie discipline. Sostanzialmente, nelle successive due edizioni, oltre all'aggiunta, in capitoli esistenti, di nuovi argomenti e approfondimenti, furono inseriti due nuovi capitoli sulla chimica degli elementi, cioè un capitolo di chimica inorganica e un capitolo, tra l'altro molto breve e sintetico, di chimica organica. Nella quarta edizione furono poi inseriti esercizi svolti e da svolgere alla fine di molti capitoli. È infatti nostra convinzione che lo svolgimento di questi problemi aiuti gli studenti non solo a preparare la prova scritta, ma soprattutto a comprendere a fondo gli argomenti della chimica di base, che spesso sono difficili da assimilare se non sono accompagnati da esempi e calcoli numerici. Sempre nello spirito di aiutare lo studente a verificare il suo grado di apprendimento sono stati inseriti in questa quinta edizione trenta test di autovalutazione strutturati sulla falsariga dei compiti assegnati agli studenti del primo anno dei corsi dei quali gli autori sono titolari.

This book enables readers to see the connections in organic chemistry and understand the logic. Reaction mechanisms are grouped together to reflect logical relationships. Discusses organic chemistry as it is applied to real-world compounds and

problems. Electrostatic potential plots are added throughout the text to enhance the recognition and importance of molecular polarity. Presents problems in a new "Looking-Ahead" section at the end of each chapter that show how concepts constantly build upon each other. Converts many of the structural formulas to a line-angle format in order to make structural formulas both easier to recognize and easier to draw.

This book has been written for B.SC.(Hons) undergraduate and some chapters, for M.Sc students.

This book is designed for those who have had no more than a brief introduction to organic chemistry and who require a broad understanding of the subject. The book is in two parts. In Part I, reaction mechanism is set in its wider context of the basic principles and concepts that underlie chemical reactions: chemical thermodynamics, structural theory, theories of reaction kinetics, mechanism itself and stereochemistry. In Part II these principles and concepts are applied to the formation of particular types of bonds, groupings, and compounds. The final chapter in Part II describes the planning and detailed execution of the multi-step syntheses of several complex, naturally occurring compounds.

Succeed in chemistry with the clear explanations, problem-solving strategies, and dynamic study tools of CHEMISTRY & CHEMICAL REACTIVITY, 9e. Combining thorough instruction with the powerful multimedia tools you need to develop a deeper understanding of general chemistry concepts, the text emphasizes the visual nature of chemistry, illustrating the close interrelationship of the macroscopic, symbolic, and particulate levels of chemistry. The art program illustrates each of these levels in engaging detail--and is fully integrated with key media components. In addition access to OWLv2 may be purchased separately or at a special price if packaged with this text. OWLv2 is an online homework and tutorial system that helps you maximize your study time and improve your success in the course. OWLv2 includes an interactive eBook, as well as hundreds of guided simulations, animations, and video clips. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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