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The manner in which atomic orbitals overlap to form molecular orbitals is actually more complex than the localized examples given above. These are useful models for explaining the structure and reactivity of many organic compounds, but modern molecular orbital theory involves the creation of an orbital correlation diagram.

Molecular Structure & Bonding - Chemistry

Albinism is no longer a clinical diagnosis. The past classification of albinism was predicated on phenotypic expression, but now molecular biology has defined the condition more accurately. With recent advances in molecular research, it is possible to diagnose many of the various albinism conditions on the basis of genetic causation. This article seeks to review the current state of knowledge ...

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This unified treatment introduces upper-level undergraduates and graduate students to the concepts and methods of modern molecular spectroscopy and their applications to quantum electronics, lasers, and related optical phenomena. Starting with a review of the prerequisite quantum mechanical background, the text examines atomic spectra and diatomic molecules, including the rotation and vibration of diatomic molecules and their electronic spectra. A discussion of rudimentary group theory advances to considerations of the rotational spectra of polyatomic molecules and their vibrational and electronic spectra; molecular beams, masers, and lasers; and a variety of forms of spectroscopy, including optical resonance spectroscopy, coherent transient spectroscopy, multiple-photon spectroscopy, and spectroscopy beyond molecular constants. The text concludes with a series of useful appendixes.

During the last two decades the photochemistry of organic molecules has grown into an important and pervasive branch of organic chemistry. In Modern Molecular Photochemistry, the author brings students up to date with the advances in this field - the development of the theory of photoreactions, the utilization of photoreactions in synthetic sequences, and the advancement of powerful laser techniques to study the mechanisms of photoreactions.

Molecular biology has rapidly advanced since the discovery of the basic flow of information in life, from DNA to RNA to proteins. While there are several important and interesting exceptions to this general flow of information, the importance of these biological macromolecules in dictating the phenotypic nature of living creatures in health and disease is paramount. In the last one and a half decades, and particularly after the completion of the Human Genome Project, there has been an explosion of technologies that allow the broad characterization of these macromolecules in physiology, and the perturbations to these macromolecules that occur in diseases such as cancer. In this volume, we will explore the modern approaches used to characterize these macromolecules in an unbiased, systematic way. Such technologies are rapidly advancing our knowledge of the coordinated and complicated changes that occur during carcinogenesis, and are providing vital information that, when correctly interpreted by biostatistical/bioinformatics analyses, can be exploited for the prevention, diagnosis, and treatment of human cancers. The purpose of this volume is to provide an overview of modern molecular biological approaches to unbiased discovery in cancer research. Advances in molecular biology allowing unbiased analysis of changes in cancer initiation and progression will be overviewed. These include the strategies employed in modern genomics, gene expression analysis, and proteomics.

Volume 14 in the series Comprehensive Toxicology extends and complements the previously published 13-volume set. This volume will be available separately. Toxicology is the study of the nature and actions of chemicals on biological systems. In more primitive times, it really was the study of poisons. However, in the early 1500s, it was apparent to Paracelsus that "the dose differentiates a poison and a remedy". Clearly, the two most important tenets of toxicology were established during that time. The level of exposure (dose) and the duration of exposure (time) will determine the degree and nature of a toxicological response. Since that time the discipline of toxicology has made major advances in identifying and characterizing toxicants. The growth of toxicology as a scientific discipline has been driven to a large extent by the use of extremely powerful molecular and cell biology techniques. The overall aim of this volume is to demonstrate how these advances are being used to elucidate causal pathways (or linkages) for potential adverse health consequences of human exposure to environmental chemicals or radiation. A unique feature of this volume is its illustration of how carefully-designed studies of the molecular mechanisms of chemical action provide not only understanding of the potential toxicity of the chemical under investigation, but also new insights into the functioning of the biological system used as an experimental model. Each chapter contains a listing of major peer-reviewed articles and reviews and useful web-sites. In addition, each chapter contains a broad introductory section that outlines the subsequent sections. These Introductory and Overview sections are designed to be stand alone chapters, and may be packaged as a textbook in graduate level courses.

A first source for traditional methods of microbiology as well as commonly used modern molecular microbiological methods. • Provides a comprehensive compendium of methods used in general and molecular microbiology. • Contains many new and expanded chapters, including a section on the newly important field of community and genomic analysis. • Provides step-by-step coverage of procedures, with an extensive list of references to guide the user to the original literature for more complete descriptions. • Presents methods for bacteria, archaea, and for the first time a section on mycology. • Numerous schematics and illustrations (both color and black and white) help the reader to easily understand the topics presented.

University

Molecular and Laser Spectroscopy: Advances and Applications provides students and researchers with an up-to-date understanding of the fast-developing area of molecular and laser spectroscopy. Editor V.P. Gupta has brought together the eminent scientists on a selection of topics to develop a systematic approach, first covering basic principles needed to understand each cutting-edge technique and application. This book acts as a standard reference for advanced students of molecular and laser spectroscopy and as a graduate text for new entrants in the field. The book covers a wide range of applications of molecular and laser spectroscopy in diverse areas ranging from materials to medicine and defence, biomedical research, environmental monitoring, forensic investigations, food and agriculture, and chemical, pharmaceutical and petrochemical processes. Researchers and scientific personnel in these fields will learn the latest techniques in order to put them to practical use in their work. Covers several areas of spectroscopy research in a single volume, saving researchers time Includes exhaustive lists of research articles, reviews and books at the end of each chapter to point readers in the right direction for further learning Features illustrative examples of the varied applications Serves as a practical guide to those interested in using molecular and laser spectroscopy tools in their research and field applications

On the basis of the agreement signed between UNESCO and the Government of the Republic of Poland the International Institute for Cell and Molecular Biology of UNESCO was officially inaugurated in October 1995 in Warsaw, Poland, as part of the activity of the Global Network for Molecular and Cell Biology (MCBN) of UNESCO. The occasion was marked by the bringing together in Warsaw of a broad spectrum of cell and molecular biologists from around the world under the auspices of the Global MCBN UNESCO. At the conclusion of that week-long celebration it became clear that Polish cell and molecular biology had come of age in terms of its depth, vigor and impact on the global scene. At the suggestion of Professor Angelo Azzi, chairman of Global MCBN UNESCO, we considered the challenge of compiling a volume in the Molecular and Cell Biology Updates (MCBU) Series that would address the molecular basis of cancer and its therapy, but one that would additionally serve to highlight Polish contributions to this field of research. We accepted the challenge presented to us by Professor Azzi and are grateful to all contributors of the present volume for making this a pleasant and stimulating project. We requested each contributor to present his personal perspective of respective topics. As a consequence, we hope that each contribution has a distinctive individual flavor which reflects the role played by individual research groups in advancing science.

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