

Oxygen The Molecule That Made The World

The Molecule of More
The Age of the Molecule
The Molecule Hunt: Archaeology and the Search for Ancient DNA
The Molecule-Metal Interface
The Molecules of Life
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PROPHET molecules
Fundamentals of Molecular Symmetry
Methods in Molecular Biophysics
Organic Chemistry I Workbook For Dummies
Molecular Symmetry and Group Theory
Chemistry as a Game of Molecular Construction
Organic Conductors, Superconductors and Magnets: From Synthesis to Molecular Electronics
Molecular Biophysics for the Life Sciences
Molecular-Scale Electronics
Low Temperatures and Cold Molecules
Fullerenes—Advances in Research and Application: 2013 Edition
Organic Chemistry
Soft Condensed Matter Physics in Molecular and Cell Biology
Laser Control of Atoms and Molecules
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why are we obsessed with the things we want only to be bored when we get them why is addiction perfectly logical to an addict why does love change so quickly from passion to indifference why are some people die hard liberals and others hardcore

conservatives why are we always hopeful for solutions even in the darkest times and so good at figuring them out the answer is found in a single chemical in your brain dopamine dopamine ensured the survival of early man thousands of years later it is the source of our most basic behaviors and cultural ideas and progress itself dopamine is the chemical of desire that always asks for more more stuff more stimulation and more surprises in pursuit of these things it is undeterred by emotion fear or morality dopamine is the source of our every urge that little bit of biology that makes an ambitious business professional sacrifice everything in pursuit of success or that drives a satisfied spouse to risk it all for the thrill of someone new simply put it is why we seek and succeed it is why we discover and prosper yet at the same time it is why we gamble and squander from dopamine's point of view it is not the having that matters it is getting something anything that is new from this understanding the difference between possessing something versus anticipating it we can understand in a revolutionary new way why we behave as we do in love business addiction politics religion and we can even predict those behaviors in ourselves and others in the molecule of more how a single chemical in your brain drives love sex and creativity and will determine the fate of the human race george washington university professor and psychiatrist daniel z lieberman md and georgetown university lecturer michael e long present a potentially life changing proposal much of human life has an unconsidered component that explains an array of behaviors previously thought to be unrelated including why winners cheat why geniuses often suffer with mental illness why nearly all diets fail and why the brains of liberals and conservatives really are different

vhs

a revolution is underway in archaeology working at the cutting edge of genetic and molecular technologies researchers have been probing the building blocks of ancient life dna proteins fats to rewrite our understanding of the past their discoveries including a mitochondrial eve the woman from whom all modern humans descend and analyses have helped revise the human genealogical tree and answer such questions as how different are we from the neanderthals who first domesticated horses and ancient grasses what was life like for our ancestors here is science at its most engaging

reviewing recent progress in the fundamental understanding of the molecule metal interface this useful addition to the literature focuses on experimental studies and introduces the latest analytical techniques as applied to this interface the first part covers basic theory and initial principle studies while the second part introduces readers to photoemission stm and synchrotron

techniques to examine the atomic structure of the interfaces the third part presents photoelectron spectroscopy high resolution uv photoelectron spectroscopy and electron spin resonance to study the electronic structure of the molecule metal interface in the closing chapter the editors discuss future perspectives written as a senior graduate or senior undergraduate textbook for students in physics chemistry materials science or engineering the book s interdisciplinary approach makes it equally relevant for researchers working in the field of organic and molecular electronics

the field of biochemistry is entering an exciting era in which genomic information is being integrated into molecular level descriptions of the physical processes that make life possible the molecules of life is a new textbook that provides an integrated physical and biochemical foundation for undergraduate students majoring in biology or health s

winner of a 2005 choice outstanding academic book award molecular symmetry is an easily applied tool for understanding and predicting many of the properties of molecules traditionally students are taught this subject using point groups derived from the equilibrium geometry of the molecule fundamentals of molecular symmetry shows how to set up symmetry groups for molecules using the more general idea of energy invariance it is no more difficult than using molecular geometry and one obtains molecular symmetry groups the book provides an introductory description of molecular spectroscopy and quantum mechanics as the foundation for understanding how molecular symmetry is defined and used the approach taken gives a balanced account of using both point groups and molecular symmetry groups usually the point group is only useful for isolated nonrotating molecules executing small amplitude vibrations with no tunneling in isolated electronic states however for the chemical physicist or physical chemist who wishes to go beyond these limitations the molecular symmetry group is almost always required

our knowledge of biological macromolecules and their interactions is based on the application of physical methods ranging from classical thermodynamics to recently developed techniques for the detection and manipulation of single molecules these methods which include mass spectrometry hydrodynamics microscopy diffraction and crystallography electron microscopy molecular dynamics simulations and nuclear magnetic resonance are complementary each has its specific advantages and limitations organised by method this textbook provides descriptions and examples of applications for the key physical methods in modern biology it is an invaluable resource for undergraduate and graduate students of molecular biophysics in science and medical schools as well as research scientists looking for an introduction to techniques beyond their specialty as appropriate for

this interdisciplinary field the book includes short asides to explain physics aspects to biologists and biology aspects to physicists

from models to molecules to mass spectrometry solve organic chemistry problems with ease got a grasp on the organic chemistry terms and concepts you need to know but get lost halfway through a problem or worse yet not know where to begin have no fear this hands on guide helps you solve the many types of organic chemistry problems you encounter in a focused step by step manner with memorization tricks problem solving shortcuts and lots of hands on practice exercises you'll sharpen your skills and improve your performance you'll see how to work with resonance the triple threat alkanes alkenes and alkynes functional groups and their reactions spectroscopy and more 100s of problems know how to solve the most common organic chemistry problems walk through the answers and clearly identify where you went wrong or right with each problem get the inside scoop on acing your exams use organic chemistry in practical applications with confidence

a thorough introduction to molecular symmetry and group theory as applied to chemical problems readers will discover by example the power of symmetry arguments in understanding otherwise intimidating theoretical problems in chemistry this book demonstrates the centrality of symmetry and group theory to a complete understanding of the theory of structure and bonding

chemistry as a game of molecular construction the bond click way utilizes an innovative and engaging approach to introduce students to the basic concepts and universal aspects of chemistry with an emphasis on molecules beauty and their importance in our lives offers a unique approach that portrays chemistry as a window into mankind's material chemical essence reveals the beauty of molecules through the click method a teaching methodology comprised of the process of constructing molecules from building blocks styles molecular construction in a way that reveals the universal aspect of chemistry allows students to construct molecules from the simple hydrogen molecule all the way to complex strands of dna thereby showing the overarching unity of matter provides problems sets and solutions for each chapter

the book covers different aspects of the chemistry and physics of molecular materials including organic synthesis of specific organic donors and ligands organic metals and superconductors molecule based magnets multiproperty materials and organic inorganic hybrids the 17 chapters are written by some of the most authoritative authors in their field the two last chapters are

devoted to molecular electronics and devices in particular the achievements and potential for applications an excellent work for all students and researchers in organic conductors superconductors and molecule based magnets

this volume provides an overview of the development and scope of molecular biophysics and in depth discussions of the major experimental methods that enable biological macromolecules to be studied at atomic resolution it also reviews the physical chemical concepts that are needed to interpret the experimental results and to understand how the structure dynamics and physical properties of biological macromolecules enable them to perform their biological functions reviews of research on three disparate biomolecular machines dna helicases atp synthases and myosin illustrate how the combination of theory and experiment leads to new insights and new questions

provides in depth knowledge on molecular electronics and emphasizes the techniques for designing molecular junctions with controlled functionalities this comprehensive book covers the major advances with the most general applicability in the field of molecular electronic devices it emphasizes new insights into the development of efficient platform methodologies for building such reliable devices with desired functionalities through the combination of programmed bottom up self assembly and sophisticated top down device fabrication it also helps to develop an understanding of the device fabrication processes and the characteristics of the resulting electrode molecule interface beginning with an introduction to the subject molecular scale electronics concept fabrication and applications offers full chapter coverage on topics such as metal electrodes for molecular electronics carbon electrodes for molecular electronics other electrodes for molecular electronics novel phenomena in single molecule junctions and supramolecular interactions in single molecule junctions other chapters discuss theoretical aspects for electron transport through molecular junctions characterization techniques for molecular electronics and integrating molecular functionalities into electrical circuits the book finishes with a summary of the primary challenges facing the field and offers an outlook at its future summarizes a number of different approaches for forming molecular scale junctions and discusses various experimental techniques for examining these nanoscale circuits in detail gives overview of characterization techniques and theoretical simulations for molecular electronics highlights the major contributions and new concepts of integrating molecular functionalities into electrical circuits provides a critical discussion of limitations and main challenges that still exist for the development of molecular electronics suited for readers studying or doing research in the broad fields of nano molecular electronics and other device related fields molecular scale electronics is an excellent book for materials scientists

electrochemists electronics engineers physical chemists polymer chemists and solid state chemists it will also benefit physicists semiconductor physicists engineering scientists and surface chemists

this book brings together for the first time the results of recent research in areas ranging from the chemistry of cold interstellar clouds 10 20 k through laboratory studies of the spectroscopy and kinetics of ions radicals and molecules to studies of molecules in liquid helium droplets to attempts to create molecular as distinct from atomic bose einstein condensates

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provides an in depth study of organic compounds that bridges the gap between general and organic chemistry organic chemistry concepts and applications presents a comprehensive review of organic compounds that is appropriate for a two semester sophomore organic chemistry course the text covers the fundamental concepts needed to understand organic chemistry and clearly shows how to apply the concepts of organic chemistry to problem solving in addition the book highlights the relevance of organic chemistry to the environment industry and biological and medical sciences the author includes multiple choice questions similar to aptitude exams for professional schools including the medical college admissions test mcat and dental aptitude test dat to help in the preparation for these important exams rather than categorize content information by functional groups which often stresses memorization this textbook instead divides the information into reaction types this approach bridges the gap between general and organic chemistry and helps students develop a better understanding of the material a manual of possible solutions for chapter problems for instructors and students is available in the supplementary websites this important book

provides an in depth study of organic compounds with division by reaction types that bridges the gap between general and organic chemistry covers the concepts needed to understand organic chemistry and teaches how to apply them for problem solving puts a focus on the relevance of organic chemistry to the environment industry and biological and medical sciences includes multiple choice questions similar to aptitude exams for professional schools written for students of organic chemistry organic chemistry concepts and applications is the comprehensive text that presents the material in clear terms and shows how to apply the concepts to problem solving

soft condensed matter physics which emerged as a distinct branch of physics in the 1990s studies complex fluids liquids in which structures with length scale between the molecular and the macroscopic exist polymers liquid crystals surfactant solutions and colloids fall into this category physicists deal with properties of soft matter system

rather different problems can be lumped together under the general term laser control of atoms and molecules they include the laser selection of atomic and molecular velocities for the purpose of doppler free spectroscopy laser control of the position and velocity of atoms i e laser trapping and cooling of atoms and laser control of atomic and molecular processes ionization dissociation with a view of detecting single atoms and molecules and particularly separating isotopes and nuclear isomers over the last decades the principal problems posed have been successfully solved and many of them have evolved remarkably in the subsequent investigations of the international research community for example the solution of the problem of laser cooling and trapping of atoms has given birth to the new field of the physics of ultracold matter i e quantum atomic and molecular gases the laser non coherent control of uni molecular processes has found an interesting extension in the field of laser coherent control of molecules the concept of laser control of position has been successfully demonstrated with microparticles optical tweezers concurrently with investigations into atomic control the laser photo ionization of molecules on surfaces has led to the development of novel techniques of laser assisted mass spectrometry of macromolecules and so on the aim of this book is to review these topics from a unified or coherent point of view it will be useful for many readers in various fields of laser science and its applications

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