

---

CHEMICAL  
PHYSICS OF  
FREE  
MOLECULES

---

Norman H. March  
and  
Joseph F. Mucci

---

# Chemical Physics Of Free Molecules

**William Allen Miller**



## **Chemical Physics Of Free Molecules:**

**Chemical Physics of Free Molecules** Norman H. March, J.F. Mucci, 2013-06-29 In this introductory chemical physics textbook the authors discuss the interactions bonding electron density and experimental techniques of free molecules and apply spectroscopic methods to determine molecular parameters dynamics and chemical reactions **Ultrafast Structural**

**Dynamics of Free Molecules and Condensed Matter** Anatoly A. Ischenko, Gennady V. Fetisov, Sergey A.

Aseyev, 2025-12-03 It is the dream of every natural scientist to directly observe the motion of atoms and molecules in real time as they interact The natural sciences by definition involve structural dynamics and the observation of molecules interconverting from one structure to another or other structures which is after all the very essence of science Each area of the natural sciences has unique intellectual goals however they are all united by the thought experiment in which we try to understand how molecules interconvert between different structures by passing through a reaction barrier a transition state This concept of a moment an ultra short time interval in the natural sciences forces us to think about the relative positions of the atoms that define the barrier to the process of their interaction It is the control of the barrier height that allows one of many possible atomic rearrangements to occur since it occurs faster than competing processes That is the process of molecular transformation during interaction is inherently a race against time Manipulating the barrier height gives effective exponential control over the yield of the reaction product The problem of visualizing transition state structures is akin to finding a way from one valley to another in a very rugged mountainous area during an earthquake where the mountains and the landscape change as you move across the terrain suddenly a crack appears and the shaking takes you to a more stable valley Without a detailed understanding of how fluctuations in this analogy shaking affect the potential energy landscape it would be difficult to guess where and when the crack will form or the path to the next valley At its most fundamental chemistry is the study of structural dynamics discussed both for synthetic purposes and for physical methods with the explicit goal of controlling the transformation of matter from one form property to another We now have tools to observe chemical reactions at the atomic level This monograph presents a picture of the development and evolution of methods for detecting ultrafast structural dynamics processes It describes the theoretical foundations and principles of the relevant experimental techniques as well as prospects for their improvement for application in the latest existing and developing technologies The book presents the achievements of ultrafast methods of spectroscopy electron diffraction X ray diffraction and electron microscopy for diagnostics of the structural dynamics of matter in states far from equilibrium and extreme states of matter In general the information obtained is of particular value for understanding the relationship between the elements of the structure dynamics function triad In the future this will ensure control over the functional capabilities of various materials far from equilibrium and the creation of new atomic and molecular technologies The monograph is recommended for a wide range of readers interested in the problems of the structure of matter ultrafast structural dynamics including the study of the

structure and dynamics of nanomaterials scientists graduate students and students specializing in this interesting and rapidly developing area of modern natural science which is now called ultrafast science Ultrafast transmission electron microscopy uncover structure function relationships Ultra short photoelectron pulses opened up the studying of structural dynamics One electron femtosecond pulses prevents damage of biological objects Ultrafast electron microscopy uncover simultaneous real space and diffraction imaging Ultrafast diffraction and tomography holds complete information of the quantum state

*Advances in Chemical Physics* Ilya Prigogine, Stuart A. Rice, 2009-09-08 The *Advances in Chemical Physics* series provides the chemical physics and physical chemistry fields with a forum for critical authoritative evaluations of advances in every area of the discipline Filled with cutting edge research reported in a cohesive manner not found elsewhere in the literature each volume of the *Advances in Chemical Physics* series serves as the perfect supplement to any advanced graduate class devoted to the study of chemical physics

**The Journal of Chemical Physics**, 2008 **Encyclopedia of Chemical Physics and Physical Chemistry** John H. Moore, Nicholas D. Spencer, 2023-07-03 The *Encyclopedia of Physical Chemistry and Chemical Physics* introduces possibly unfamiliar areas explains important experimental and computational techniques and describes modern endeavors The encyclopedia quickly provides the basics defines the scope of each subdiscipline and indicates where to go for a more complete and detailed explanation Particular attention has been paid to symbols and abbreviations to make this a user friendly encyclopedia Care has been taken to ensure that the reading level is suitable for the trained chemist or physicist The encyclopedia is divided in three major sections **FUNDAMENTALS** the mechanics of atoms and molecules and their interactions the macroscopic and statistical description of systems at equilibrium and the basic ways of treating reacting systems The contributions in this section assume a somewhat less sophisticated audience than the two subsequent sections At least a portion of each article inevitably covers material that might also be found in a modern undergraduate physical chemistry text **METHODS** the instrumentation and fundamental theory employed in the major spectroscopic techniques the experimental means for characterizing materials the instrumentation and basic theory employed in the study of chemical kinetics and the computational techniques used to predict the static and dynamic properties of materials **APPLICATIONS** specific topics of current interest and intensive research For the practicing physicist or chemist this encyclopedia is the place to start when confronted with a new problem or when the techniques of an unfamiliar area might be exploited For a graduate student in chemistry or physics the encyclopedia gives a synopsis of the basics and an overview of the range of activities in which physical principles are applied to chemical problems It will lead any of these groups to the salient points of a new field as rapidly as possible and gives pointers as to where to read about the topic in more detail

**Elements of Chemistry: Chemical physics** William Allen Miller, 1877 *Encyclopedia of Chemical Physics and Physical Chemistry: Applications* Nicholas D. Spencer, John H. Moore, 2001 *The Iodine Molecule* Sergey Lukashov, Alexander Petrov, Anatoly Pravilov, 2018-01-02 This book presents experimental and theoretical

spectroscopic studies performed over the last 25 years on the iodine molecule's excited states and their perturbations. It is going to be of interest to researchers who study intra and intermolecular perturbations in diatomic molecules and more complex systems. The book offers a detailed treatment of the nonadiabatic perturbations of valence ion pair and Rydberg states induced by intramolecular as well as intermolecular interactions in collisions or in weakly bound complexes. It also provides an overview of current instrumentation and techniques as well as theoretical approaches describing intra and intermolecular perturbations. The authors are experts in the use of spectroscopy for the study of intrinsic and collision-induced perturbations in diatomic iodine. They introduced a new method of three-step optical population of the iodine ion pair states. The iodine molecule has 23 valence states correlating with three dissociation limits, 20 so-called ion pair states nestled in four tiers and a multitude of Rydberg states. All the states have different angular momenta, parities, and very dense rovibronic levels. Moreover, perturbations caused by atomic or molecular partners lead to effective nonadiabatic transitions. For these reasons, the authors propose this molecule as a model system for spectroscopic studies of intra and intermolecular perturbations in other diatomic molecules.

*Advances in Chemical Physics* Ilya Prigogine, 1958  
*Chemical physics* William Allen Miller, 1881  
*Fundamentals in Chemical Physics* F. Battaglia, T.F. George, 1998-10-31

Taking an individual approach, this book focuses on the concepts underlying chemical physics. It presents the essence of a connected theory rather than mere explanations of apparently unrelated facts, helping readers to understand chemical phenomena in terms of the most fundamental laws of physics.

**Water and its teachings in chemistry, physics and physiography** Conwy Lloyd Morgan, 1882  
*Elements of Chemical Physics* Josiah Parsons Cooke (Jr.), 1877  
**Advances in Quantum Chemistry**, 1983-02-15  
*Advances in Quantum Chemistry*  
**Chemical Physics of Nonmetallic Crystals**, 1962  
**Chemical Physics of Solids and Their Surfaces**, 1980  
**Chemical Physics of Solids and Their Surfaces** M. W. Roberts, John M. Thomas, 1978

Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research. Written by experts in their specialist fields, the series creates a unique service for the active research chemist, supplying regular, critical, in-depth accounts of progress in particular areas of chemistry. For over 80 years, the Royal Society of Chemistry and its predecessor, the Chemical Society, have been publishing reports charting developments in chemistry, which originally took the form of Annual Reports. However, by 1967, the whole spectrum of chemistry could no longer be contained within one volume, and the series Specialist Periodical Reports was born. The Annual Reports themselves still existed but were divided into two and subsequently three volumes covering Inorganic, Organic, and Physical Chemistry. For more general coverage of the highlights in chemistry, they remain a must. Since that time, the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry. Some titles have remained unchanged, while others have altered their emphasis along with their titles; some have been combined under a new name, whereas others have had to be discontinued.

*Equilibrium Structure of Free Molecules* Natalja Vogt, Jean Demaison, 2023-09-06

This book

examines around 400 of the most striking examples of structural studies of free molecules selected and analyzed by virtue of the unique molecular complexity and novelty of the experimental techniques used The properties of chemical pharmaceutical and biological compounds depend mainly on their molecular structure the determination of which is of fundamental interest Featuring high quality structural data determined using modern techniques in electron diffraction and high resolution spectroscopy the book is an indispensable resource for graduate students and professional scientists specializing in structural chemistry and other relevant fields

**Handbook of High-resolution Spectroscopy** Martin Quack, Frederic Merkt, 2011-09-26 The field of High Resolution Spectroscopy has been considerably extended and even redefined in some areas Combining the knowledge of spectroscopy laser technology chemical computation and experiments Handbook of High Resolution Spectroscopy provides a comprehensive survey of the whole field as it presents itself today with emphasis on the recent developments This essential handbook for advanced research students graduate students and researchers takes a systematic approach through the range of wavelengths and includes the latest advances in experiment and theory that will help and guide future applications The first comprehensive survey in high resolution molecular spectroscopy for over 15 years Brings together the knowledge of spectroscopy laser technology chemical computation and experiments Brings the reader up to date with the many advances that have been made in recent times Takes the reader through the range of wavelengths covering all possible techniques such as Microwave Spectroscopy Infrared Spectroscopy Raman Spectroscopy VIS UV and VUV Combines theoretical computational and experimental aspects Has numerous applications in a wide range of scientific domains Edited by two leaders in this field Provides an overview of rotational vibration electronic and photoelectron spectroscopy Volume 1 Introduction Fundamentals of Molecular Spectroscopy Volume 2 High Resolution Molecular Spectroscopy Methods and Results Volume 3 Special Methods Applications

*Elements of Chemistry: Chemical physics. 1874. xv. 585 p* William Allen Miller, 1874

Uncover the mysteries within its enigmatic creation, **Chemical Physics Of Free Molecules** . This downloadable ebook, shrouded in suspense, is available in a PDF format ( PDF Size: \*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

[https://gandalf.roeckerfam.com/public/detail/fetch.php/classified\\_library\\_of\\_congress\\_subject\\_headings.pdf](https://gandalf.roeckerfam.com/public/detail/fetch.php/classified_library_of_congress_subject_headings.pdf)

## **Table of Contents Chemical Physics Of Free Molecules**

1. Understanding the eBook Chemical Physics Of Free Molecules
  - The Rise of Digital Reading Chemical Physics Of Free Molecules
  - Advantages of eBooks Over Traditional Books
2. Identifying Chemical Physics Of Free Molecules
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Chemical Physics Of Free Molecules
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chemical Physics Of Free Molecules
  - Personalized Recommendations
  - Chemical Physics Of Free Molecules User Reviews and Ratings
  - Chemical Physics Of Free Molecules and Bestseller Lists
5. Accessing Chemical Physics Of Free Molecules Free and Paid eBooks
  - Chemical Physics Of Free Molecules Public Domain eBooks
  - Chemical Physics Of Free Molecules eBook Subscription Services
  - Chemical Physics Of Free Molecules Budget-Friendly Options
6. Navigating Chemical Physics Of Free Molecules eBook Formats

- ePub, PDF, MOBI, and More
  - Chemical Physics Of Free Molecules Compatibility with Devices
  - Chemical Physics Of Free Molecules Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Chemical Physics Of Free Molecules
    - Highlighting and Note-Taking Chemical Physics Of Free Molecules
    - Interactive Elements Chemical Physics Of Free Molecules
  8. Staying Engaged with Chemical Physics Of Free Molecules
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Chemical Physics Of Free Molecules
  9. Balancing eBooks and Physical Books Chemical Physics Of Free Molecules
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Chemical Physics Of Free Molecules
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Chemical Physics Of Free Molecules
    - Setting Reading Goals Chemical Physics Of Free Molecules
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Chemical Physics Of Free Molecules
    - Fact-Checking eBook Content of Chemical Physics Of Free Molecules
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

### **Chemical Physics Of Free Molecules Introduction**

Chemical Physics Of Free Molecules Offers over 60,000 free eBooks, including many classics that are in the public domain. Open Library: Provides access to over 1 million free eBooks, including classic literature and contemporary works. Chemical Physics Of Free Molecules Offers a vast collection of books, some of which are available for free as PDF downloads, particularly older books in the public domain. Chemical Physics Of Free Molecules : This website hosts a vast collection of scientific articles, books, and textbooks. While it operates in a legal gray area due to copyright issues, its a popular resource for finding various publications. Internet Archive for Chemical Physics Of Free Molecules : Has an extensive collection of digital content, including books, articles, videos, and more. It has a massive library of free downloadable books. Free-eBooks Chemical Physics Of Free Molecules Offers a diverse range of free eBooks across various genres. Chemical Physics Of Free Molecules Focuses mainly on educational books, textbooks, and business books. It offers free PDF downloads for educational purposes. Chemical Physics Of Free Molecules Provides a large selection of free eBooks in different genres, which are available for download in various formats, including PDF. Finding specific Chemical Physics Of Free Molecules, especially related to Chemical Physics Of Free Molecules, might be challenging as theyre often artistic creations rather than practical blueprints. However, you can explore the following steps to search for or create your own Online Searches: Look for websites, forums, or blogs dedicated to Chemical Physics Of Free Molecules, Sometimes enthusiasts share their designs or concepts in PDF format. Books and Magazines Some Chemical Physics Of Free Molecules books or magazines might include. Look for these in online stores or libraries. Remember that while Chemical Physics Of Free Molecules, sharing copyrighted material without permission is not legal. Always ensure youre either creating your own or obtaining them from legitimate sources that allow sharing and downloading. Library Check if your local library offers eBook lending services. Many libraries have digital catalogs where you can borrow Chemical Physics Of Free Molecules eBooks for free, including popular titles. Online Retailers: Websites like Amazon, Google Books, or Apple Books often sell eBooks. Sometimes, authors or publishers offer promotions or free periods for certain books. Authors Website Occasionally, authors provide excerpts or short stories for free on their websites. While this might not be the Chemical Physics Of Free Molecules full book , it can give you a taste of the authors writing style. Subscription Services Platforms like Kindle Unlimited or Scribd offer subscription-based access to a wide range of Chemical Physics Of Free Molecules eBooks, including some popular titles.

### **FAQs About Chemical Physics Of Free Molecules Books**

How do I know which eBook platform is the best for me? Finding the best eBook platform depends on your reading preferences and device compatibility. Research different platforms, read user reviews, and explore their features before

making a choice. Are free eBooks of good quality? Yes, many reputable platforms offer high-quality free eBooks, including classics and public domain works. However, make sure to verify the source to ensure the eBook credibility. Can I read eBooks without an eReader? Absolutely! Most eBook platforms offer webbased readers or mobile apps that allow you to read eBooks on your computer, tablet, or smartphone. How do I avoid digital eye strain while reading eBooks? To prevent digital eye strain, take regular breaks, adjust the font size and background color, and ensure proper lighting while reading eBooks. What the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. Chemical Physics Of Free Molecules is one of the best book in our library for free trial. We provide copy of Chemical Physics Of Free Molecules in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Chemical Physics Of Free Molecules. Where to download Chemical Physics Of Free Molecules online for free? Are you looking for Chemical Physics Of Free Molecules PDF? This is definitely going to save you time and cash in something you should think about. If you trying to find then search around for online. Without a doubt there are numerous these available and many of them have the freedom. However without doubt you receive whatever you purchase. An alternate way to get ideas is always to check another Chemical Physics Of Free Molecules. This method for see exactly what may be included and adopt these ideas to your book. This site will almost certainly help you save time and effort, money and stress. If you are looking for free books then you really should consider finding to assist you try this. Several of Chemical Physics Of Free Molecules are for sale to free while some are payable. If you arent sure if the books you would like to download works with for usage along with your computer, it is possible to download free trials. The free guides make it easy for someone to free access online library for download books to your device. You can get free download on free trial for lots of books categories. Our library is the biggest of these that have literally hundreds of thousands of different products categories represented. You will also see that there are specific sites catered to different product types or categories, brands or niches related with Chemical Physics Of Free Molecules. So depending on what exactly you are searching, you will be able to choose e books to suit your own need. Need to access completely for Campbell Biology Seventh Edition book? Access Ebook without any digging. And by having access to our ebook online or by storing it on your computer, you have convenient answers with Chemical Physics Of Free Molecules To get started finding Chemical Physics Of Free Molecules, you are right to find our website which has a comprehensive collection of books online. Our library is the biggest of these that have literally hundreds of thousands of different products represented. You will also see that there are specific sites catered to different categories or niches related with Chemical Physics Of Free Molecules So depending on what exactly you are searching, you will be able to choose ebook to suit your own need. Thank you for reading Chemical Physics Of Free Molecules. Maybe you have knowledge that, people have search numerous times for their favorite readings like this Chemical Physics Of Free Molecules, but end up in harmful downloads.

Rather than reading a good book with a cup of coffee in the afternoon, instead they juggled with some harmful bugs inside their laptop. Chemical Physics Of Free Molecules is available in our book collection an online access to it is set as public so you can download it instantly. Our digital library spans in multiple locations, allowing you to get the most less latency time to download any of our books like this one. Merely said, Chemical Physics Of Free Molecules is universally compatible with any devices to read.

**Find Chemical Physics Of Free Molecules :**

classified library of congress subject headings

**claes oloenburg drawings watercolors and prints**

**class; a novel**

*classroom discipline an idea handbook for elementary school teacher*

~~classroom computers and cognitive science~~

*classroom cartoons for all occasions*

*claire petulengros year ahead 2003*

~~classic slave narratives~~

**classified information suri**

clarinet strategies 52 performance strategies for the advanced clarinetist

~~clara zetkin selected writings~~

classic tale of velveteen rabbit or how toys become real

clarise cumberbatch want to go home

classical repertoire for clarinet volume one

**classroom games in french**

**Chemical Physics Of Free Molecules :**

What happened to Deeper in You? - FAQs - Sylvia Day What happened to Deeper in You? - FAQs - Sylvia Day Reflected in You (Crossfire, Book 2) eBook : Day, Sylvia Reflected in You (Crossfire, Book 2) by [Sylvia Day] ... Sylvia Day is the #1 New York Times and #1 international bestselling author of over 20 award-winning ... Reflected in You (Crossfire, #2) by Sylvia Day Read 11.3k reviews from the world's largest community for readers. Gideon Cross. As beautiful and flawless on the outside as he was damaged and tormented o... Reflected in You (A Crossfire Novel) by Sylvia Day Book Review - Reflected in you

(Crossfire #2) - Sylvia Day The second chapter in Eva and Gideon's story is one that will enthrall you, emotionally hurt you ... Reflected in You (A Crossfire Novel #2) (Paperback) By Sylvia Day ; Description. The sensual saga of Eva and Gideon continues in the second novel in the #1 New York Times bestselling Crossfire series. Gideon Cross ... Reflected in You - Crossfire Series, Book 2 Oct 2, 2012 — The second novel in the searingly romantic series following Gideon Cross and Eva Tramell, written by Sylvia Day. The Crossfire Saga, Book 2. Reflected in You (Crossfire Series #2) The sensual saga of Eva and Gideon continues in the second novel in the #1 New York Times bestselling Crossfire series. Gideon Cross. What is the correct reading order for the Crossfire Saga? What is the correct reading order for the Crossfire Saga? · Bared to You · Reflected in You · Entwined with You · Captivated by You · One with You. Review: Reflected in You by Sylvia Day Nov 5, 2012 — Gideon Cross. As beautiful and flawless on the outside as he was damaged and tormented on the inside. He was a bright, scorching flame that ... Book Review - Reflected In You by Sylvia Day Oct 4, 2012 — Reflected in You: Book #2 in the Crossfire Series (see my review for book#1 - Bared To You, if you haven't read this yet. Answers To Basic Methods Of Structural Geology (2023) Oct 15, 2023 — Psyche | Falcon Heavy - Everyday Astronaut. Q&A: What does it mean to be a woman in the geosciences? - Stanford Earth. Basic Methods Of Structural Geology Solution Manual Our interactive player makes it easy to find solutions to Basic Methods of Structural Geology problems you're working on - just go to the chapter for your book. STRUCTURAL GEOLOGY EXERCISE 25 PTS. NAME ... Dec 9, 2019 — NAME Complete the following exercises using your textbook and lecture notes as guides. Cross-Section and Map Views Consider the ... geokniga-basic-methods-structural-geology.pdf Basic Methods of Structural Geology is a textbook designed to serve two purposes. ... answers to the preceding questions, and Tables 10-2 and 10-3, explain why ... Basic Methods of Structural Geology by Marshak, Stephen ... solutions such as can be found in most modern math, engineering, chemistry textbooks. Bottom Line: This textbook makes learning structural geology a huge ... Chapter 12 Geological Structures Some of the types of geological structures that are important to study include bedding planes, planes of foliation, dykes and sills, fractures, faults, and ... Basic Methods of Structural... by STEPHEN MARSHAK ... Basic Methods of Structural Geology [Paperback] [Jan 01, 2017] Stephen Marshak Gautum Mitra, [STEPHEN MARSHAK GAUTUM MITRA,] on Amazon.com. Structural Geology Numericals and Maps: Class-04 - YouTube Problems and Solutions in Structural Geology and Tectonics Chapter 1 - Cross-Section Construction and Balancing: Examples From the Spanish Pyrenees · Chapter 2 - Techniques for the Field Measurement and Analysis of the ... Structural Geology - Lesson 1 - Part 3 of 4 - YouTube The Four Pillars of Investing: Lessons... by Bernstein, William The Four Pillars of Investing: Lessons... by Bernstein, William The Four Pillars of Investing:... by William J. Bernstein Bernstein outlines the four pillars necessary to set up an effective investment strategy; investment theory, history, psychology and the business of investing. The Four Pillars of Investing: Lessons for Building a ... The classic guide to constructing a solid portfolio—without a financial advisor! “With relatively little effort, you can design and assemble an investment ... The Four

Pillars of Investing: Lessons for Building a ... The book presents the Four Pillars of Investing, then shows how to use the pillars to assemble a portfolio. Pillar 1: Investment Theory • High returns require ... The Four Pillars of Investing : Lessons for Building a ... The Four Pillars of Investing : Lessons for Building a Winning Portfolio by William J. Bernstein (2002, Hardcover). The Four Pillars of Investing: Lessons for Building a Winning ... The classic guide to constructing a solid portfolio--without a financial advisor ""With relatively little effort, you can design and assemble an investment ... Four Pillars of Investing: Lessons for Building a Winning Po by ... Author: William Bernstein ISBN 10: 0071747052. Title: Four Pillars of Investing: Lessons for Building a Winning Po Item Condition: New. The Four Pillars of Investing: Lessons for Building ... Practical investing advice based on fascinating history lessons from the market · Exercises to determine risk tolerance as an investor · An easy-to-understand ... The Four Pillars of Investing, Second Edition The Four Pillars of Investing, Second Edition: Lessons for Building a Winning Po. NWT. William Bernstein. \$28 \$43. Discounted Shipping. Size. Hardcover.