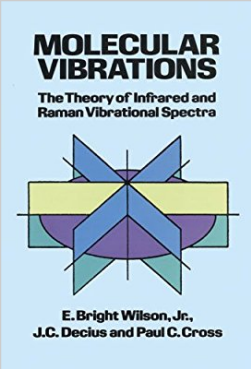

Molecular Vibrations: The Theory of Infrared and Raman Vibrational Spectra (Dover Books on Chemistry)

By E. Bright Wilson Jr., J.C. Decius, Paul C. Cross

Molecular Vibrations: The Theory of Infrared and Raman Vibrational Spectra (Dover Books on Chemistry) By E. Bright Wilson Jr., J.C. Decius, Paul C. Cross

Because of its connection with laser technology, the theory of infrared and Raman vibrational spectra is even more important now than when this book was first published. As the pioneering text in the field and as the text still preferred today, *Molecular Vibrations* is the undeniable choice of anyone teaching or studying molecular spectroscopy at the graduate level. It is the only book of its kind in the area written by well-known scientists, and besides its value as a pedagogical classic, it is an essential reference for anyone engaged in research. The genius of the book is its rigorous, elegant treatment of the mathematics involved in detailed vibrational analyses of polyatomic molecules. The reader is led carefully and gradually through the main features of the theory and its methods: starting from a valuable introduction to the theory of molecular vibrations and the application of wave mechanics to this subject; leading into the mathematical methods devised by Professor Wilson and his students for handling the mathematical problems and for making use of symmetry and group theory; proceeding through vibrational selection rules and intensities, potential functions and methods of solving the secular determinant; and concluding with a sample vibrational analysis of the molecule of benzene. Sixteen appendices, comprising nearly one hundred pages, offer much extremely useful information that is more clearly understood outside the body of the text.
Well-known for their distinguished contributions to the field, the authors — in addition to Professor Wilson of Harvard University — are J. C. Decius of Oregon State University and Paul C. Cross, late President of Mellon Institute. Younger students interested in the field of molecular spectroscopy will especially welcome this inexpensive reprint edition of an exceptional book.
"An authoritative and complete presentation written on a very high level." — G. Herzberg, *Science*
"The easiest and quickest route to acquiring skill in handling the mathematics of molecular vibrations." — *Nature*

Molecular Vibrations: The Theory of Infrared and Raman Vibrational Spectra (Dover Books on Chemistry)

By E. Bright Wilson Jr., J.C. Decius, Paul C. Cross

Molecular Vibrations: The Theory of Infrared and Raman Vibrational Spectra (Dover Books on Chemistry) By E. Bright Wilson Jr., J.C. Decius, Paul C. Cross

Because of its connection with laser technology, the theory of infrared and Raman vibrational spectra is even more important now than when this book was first published. As the pioneering text in the field and as the text still preferred today, *Molecular Vibrations* is the undeniable choice of anyone teaching or studying molecular spectroscopy at the graduate level. It is the only book of its kind in the area written by well-known scientists, and besides its value as a pedagogical classic, it is an essential reference for anyone engaged in research.
The genius of the book is its rigorous, elegant treatment of the mathematics involved in detailed vibrational analyses of polyatomic molecules. The reader is led carefully and gradually through the main features of the theory and its methods: starting from a valuable introduction to the theory of molecular vibrations and the application of wave mechanics to this subject; leading into the mathematical methods devised by Professor Wilson and his students for handling the mathematical problems and for making use of symmetry and group theory; proceeding through vibrational selection rules and intensities, potential functions and methods of solving the secular determinant; and concluding with a sample vibrational analysis of the molecule of benzene. Sixteen appendices, comprising nearly one hundred pages, offer much extremely useful information that is more clearly understood outside the body of the text.
Well-known for their distinguished contributions to the field, the authors — in addition to Professor Wilson of Harvard University — are J. C. Decius of Oregon State University and Paul C. Cross, late President of Mellon Institute. Younger students interested in the field of molecular spectroscopy will especially welcome this inexpensive reprint edition of an exceptional book.
"An authoritative and complete presentation written on a very high level." — G. Herzberg, *Science*
*"*The easiest and quickest route to acquiring skill in handling the mathematics of molecular vibrations." — *Nature*

Molecular Vibrations: The Theory of Infrared and Raman Vibrational Spectra (Dover Books on Chemistry) By E. Bright Wilson Jr., J.C. Decius, Paul C. Cross Bibliography

- Sales Rank: #306559 in Books
- Brand: Wilson, Edgar Bright
- Published on: 1980-03-01
- Released on: 1980-03-01

- Original language: English
- Number of items: 1
- Dimensions: 8.25" h x 5.75" w x .75" l, .93 pounds
- Binding: Paperback
- 416 pages

Editorial Review

Users Review

From reader reviews:

Margaret Williams:

Book is to be different for every single grade. Book for children right up until adult are different content. We all know that that book is very important for all of us. The book Molecular Vibrations: The Theory of Infrared and Raman Vibrational Spectra (Dover Books on Chemistry) ended up being making you to know about other information and of course you can take more information. It is very advantages for you. The publication Molecular Vibrations: The Theory of Infrared and Raman Vibrational Spectra (Dover Books on Chemistry) is not only giving you a lot more new information but also to get your friend when you feel bored. You can spend your personal spend time to read your reserve. Try to make relationship with all the book Molecular Vibrations: The Theory of Infrared and Raman Vibrational Spectra (Dover Books on Chemistry). You never experience lose out for everything if you read some books.

Kenneth Kelly:

People live in this new moment of lifestyle always attempt to and must have the time or they will get lots of stress from both lifestyle and work. So , if we ask do people have time, we will say absolutely yes. People is human not a robot. Then we ask again, what kind of activity do you possess when the spare time coming to you of course your answer can unlimited right. Then ever try this one, reading ebooks. It can be your alternative in spending your spare time, the actual book you have read is definitely Molecular Vibrations: The Theory of Infrared and Raman Vibrational Spectra (Dover Books on Chemistry).

Carol Williams:

Do you have something that you enjoy such as book? The guide lovers usually prefer to choose book like comic, small story and the biggest an example may be novel. Now, why not striving Molecular Vibrations: The Theory of Infrared and Raman Vibrational Spectra (Dover Books on Chemistry) that give your pleasure preference will be satisfied by reading this book. Reading practice all over the world can be said as the means for people to know world considerably better then how they react to the world. It can't be claimed constantly that reading behavior only for the geeky individual but for all of you who wants to end up being success person. So , for all of you who want to start looking at as your good habit, it is possible to pick Molecular Vibrations: The Theory of Infrared and Raman Vibrational Spectra (Dover Books on Chemistry) become your personal starter.

Ryan Strausbaugh:

Don't be worry in case you are afraid that this book can filled the space in your house, you may have it in e-book method, more simple and reachable. This specific Molecular Vibrations: The Theory of Infrared and Raman Vibrational Spectra (Dover Books on Chemistry) can give you a lot of pals because by you taking a look at this one book you have factor that they don't and make you more like an interesting person. This specific book can be one of one step for you to get success. This reserve offer you information that possibly your friend doesn't recognize, by knowing more than other make you to be great individuals. So , why hesitate? Let us have Molecular Vibrations: The Theory of Infrared and Raman Vibrational Spectra (Dover Books on Chemistry).

Read Molecular Vibrations: The Theory of Infrared and Raman Vibrational Spectra (Dover Books on Chemistry) By E. Bright Wilson Jr., J.C. Decius, Paul C. Cross for online ebook

Molecular Vibrations: The Theory of Infrared and Raman Vibrational Spectra (Dover Books on Chemistry) By E. Bright Wilson Jr., J.C. Decius, Paul C. Cross Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Molecular Vibrations: The Theory of Infrared and Raman Vibrational Spectra (Dover Books on Chemistry) By E. Bright Wilson Jr., J.C. Decius, Paul C. Cross books to read online.

Online Molecular Vibrations: The Theory of Infrared and Raman Vibrational Spectra (Dover Books on Chemistry) By E. Bright Wilson Jr., J.C. Decius, Paul C. Cross ebook PDF download

Molecular Vibrations: The Theory of Infrared and Raman Vibrational Spectra (Dover Books on Chemistry) By E. Bright Wilson Jr., J.C. Decius, Paul C. Cross Doc

Molecular Vibrations: The Theory of Infrared and Raman Vibrational Spectra (Dover Books on Chemistry) By E. Bright Wilson Jr., J.C. Decius, Paul C. Cross Mobipocket

Molecular Vibrations: The Theory of Infrared and Raman Vibrational Spectra (Dover Books on Chemistry) By E. Bright Wilson Jr., J.C. Decius, Paul C. Cross EPub