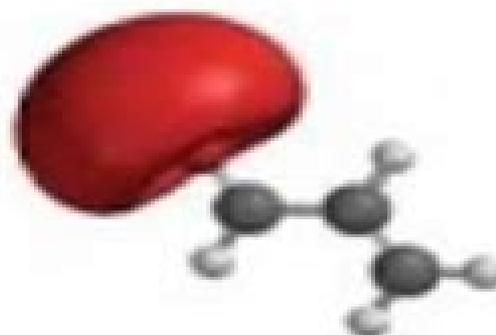
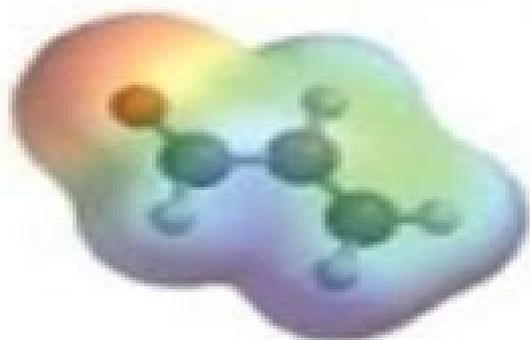


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IRA N. LEVINE

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from other fields to emphasize the unifying nature of the symmetry concept Our aim has been to provide aesthetic pleasure in addition to learning experience In our first Preface we paid tribute to two books in particular from which we learned a great deal they have influenced significantly our approach to the subject matter of our book They are Weyl's classic *Symmetry* and Shubnikov and Koptsik's *Symmetry in Science and Art* The structure of our book has not changed Following the Introduction Chapter 1 Chapter 2 presents the simplest symmetries using chemical and non chemical examples Molecular geometry is discussed in Chapter 3 The next four chapters present theoretical methods Chapter 4 and based on them discussions of molecular vibrations Chapter 5 electronic structures Chapter 6 and chemical reactions Chapter 7 For the last two chapters we return to a qualitative treatment and introduce space group symmetries Chapter 8 concluding with crystal structures Chapter 9 For the third edition we have further revised and streamlined our text and renewed the illustrative material

Computational Chemistry Using the PC Donald Rogers,1994 An introduction to computational chemistry molecular orbital calculations and molecular mechanics This second edition takes in recent developments in hardware and software The book includes a disk with about 50 complete projects and selected output files suitable for self study **Ultrafast Infrared Studies of Complex Ligand Rearrangements in Solution** Christine K. Payne,2003 McGraw-Hill Concise Encyclopedia of Chemistry McGraw Hill,2004-09-14 Based on content from the McGraw Hill Concise Encyclopedia of Science Technology 5 is the most widely used and respected science reference of its kind in print Detailed well illustrated explanations not just definitions Hundreds of concise yet authoritative articles on chemistry An easy to understand presentation accessible and interesting to non specialists A portable convenient format Bibliographies appendices and other information supplement the articles Subject Guide to Books in Print ,1993 *American Book Publishing Record* ,2000-07 **Books in Print Supplement** ,1994 **Books in Print** ,1991 Scientific and Technical Books in Print ,1972 **British Books in Print** ,1985 **Canadian Journal of Physics** ,2015 *The Cumulative Book Index* ,1996 A world list of books in the English language **Official Gazette** Philippines,2011-09 *Density Functional Study of the Al(111) Surface in the Cluster Representation* Diana Marmorstein,1994 **Molecular Spectroscopy** Jeanne L. McHale,Jeanne Louise McHale,1999 Ideal for upper level undergraduate beginning graduate courses in Molecular Spectroscopy assumes prior knowledge of quantum mechanics Blending tradition with innovation this lively and engaging text presents the basic theories underlying spectroscopy while incorporating modern viewpoints of practical utility in spectroscopy research Written in a clear jargon free style that encourages independent thinking and active participation it covers the quantum mechanical theoretical basis of spectroscopy modern innovations in spectroscopy such as time dependent theory and practical applications of spectroscopy research including the influence of condensed phases Balances a rigorous theoretical background with practical tools for the interpretation of spectra Offers a unique treatment of condensed phases by presenting the fundamental theory of spectral transitions of isolated molecules and then describing the effects of the condensed phases Studies the

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