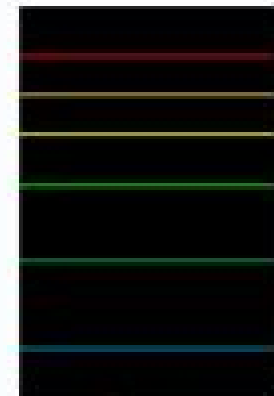
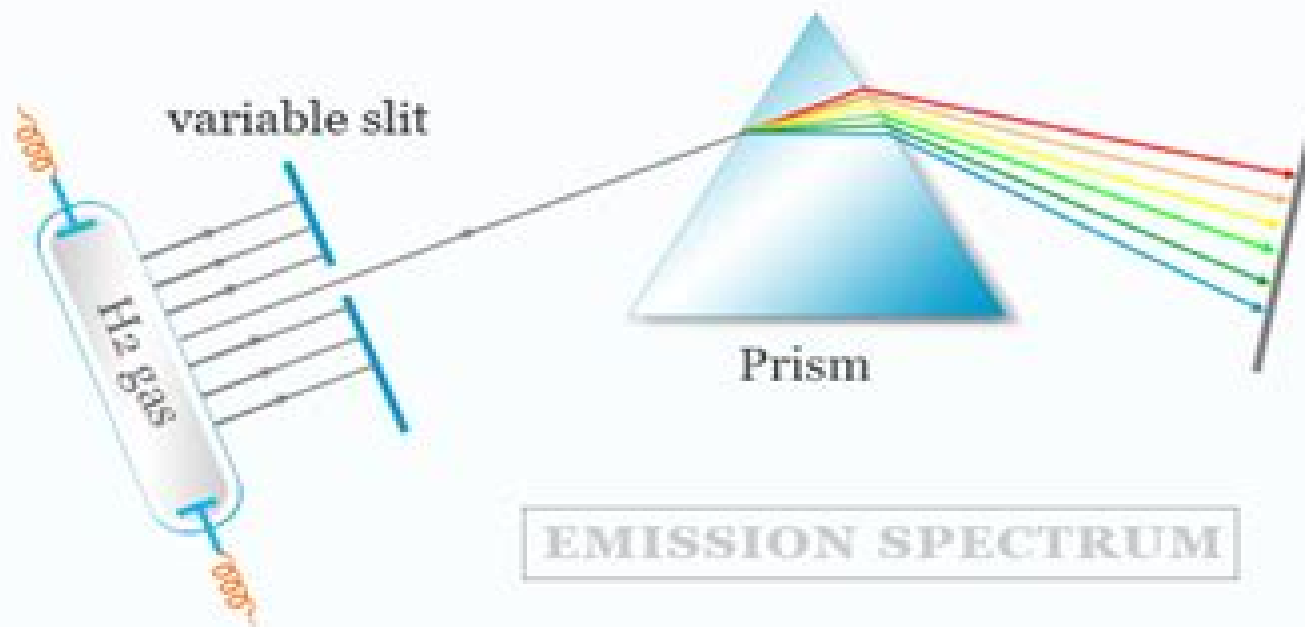
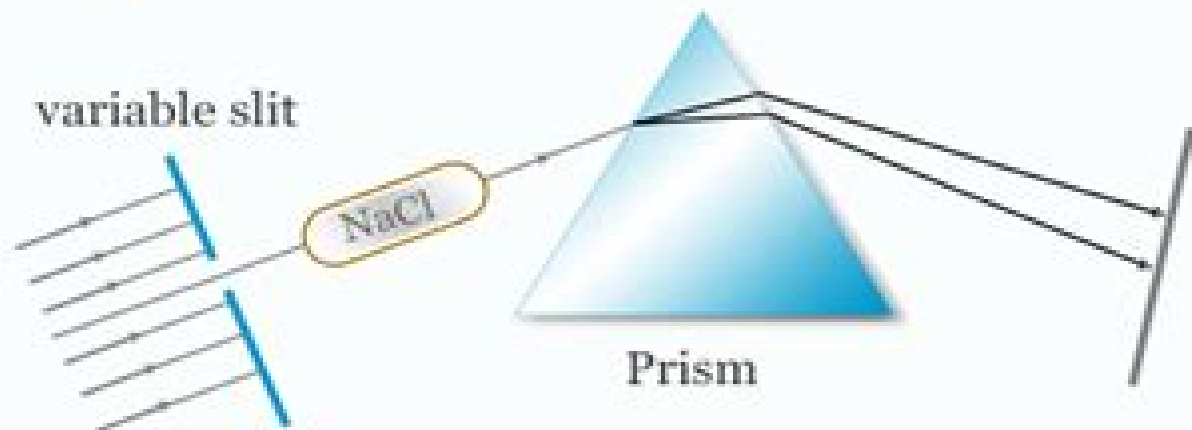


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Molecular Spectroscopy: Modern Research V3 K.N. Rao, 2012-12-02 Molecular Spectroscopy Modern Research Volume III is a collection of papers presented at the 40th Annual Molecular Spectroscopy Symposium held at the Ohio State University. The contributors of this seven chapter text cover the significant advances in molecular spectroscopic research and their application in chemistry. Chapters 1 and 2 discuss first the higher order vibration rotation interactions in molecules and then present formulas and an insight into the direction being taken in theoretical pursuits. Chapter 3 provides an extensive compilation of published intensity and collision broadening parameters derived from infrared spectra. This chapter also contains a detailed discussion using consistent notation of some of the methods commonly applied to extract such information from laboratory spectra. Chapter 4 examines a variety of laser systems and their application in investigations involving triatomic free radicals and ions while chapter 5 considers the developments in the microwave spectroscopic studies on nonpolar molecules when their symmetry is reduced by isotopic substitution. Chapter 6 emphasizes the quasi linear molecular problem to develop an appreciation of the symptoms of quasi linearity and theoretical treatments thereof. This chapter also examines the increasing role of highly resolved spectra in the interpretation of various large amplitude motions in molecules. Lastly Chapter 7 describes the electric multipolar moments of hydrogen and its isotopes. Spectroscopists, chemists and researchers will find this work invaluable.

Artificial Intelligence in Chemistry Z. Hippe, 2013-10-22 This comprehensive overview of the application of artificial intelligence methods AI in chemistry contains an in depth summary of the most interesting achievements of modern AI namely problem solving in molecular structure elucidation and in syntheses design. The book provides a brief history of AI as a branch of computer science. It also gives an overview of the basic methods employed for searching the solution space thoroughly exemplified by chemical problems together with a profound and expert discussion on many questions that may be raised by modern chemists wishing to apply computer assisted methods in their own research. Moreover it includes a survey of the most important literature references covering all essential research in automated interpretation of molecular spectra to elucidate a structure and in syntheses design. A glossary of basic terms from computer technology for chemists is appended. This book is intended to make the emerging field of artificial intelligence understandable and accessible for chemists who are not trained in computer methods for solving chemical problems. The author discusses step by step basic algorithms for structure elucidation and many aspects of the automated design of organic syntheses in order to integrate this fascinating technology into current chemical knowledge.

Physics Briefs, 1987
Photophysics and Photochemistry Above 6 eV Société de chimie physique. International Meeting, 1985
Scientific and Technical Books and Serials in Print, 1989

Valence Bond Theory and Chemical Structure D. J. Klein, Nenad Trinajstić, 1990 For the last two or three decades molecular orbital theory has been the main foundation of descriptions of molecular structure. In recent years however there has been a strong resurgence of interest in the older valence bond theory.

In this timely book leading researchers describe valence bond theory and its applications to a wide range of chemical problems. The opening articles provide background materials and a historical perspective of the subject. These are followed by articles on recent computational methodology, discussions of recent novel ab initio calculations as on benzene descriptions for conceptual chemical bonding ideas as applied both to molecular structures and chemical reactions and finally several applications involving condensed matter including polymers, magnetic solids, metals and high T_c superconductors.

Subject Guide to Books in Print, 1997 **Progress in Electrochemistry**, 1984 The Chemical Physics of Solvation Revaz R. Dogonadze, 1985. The importance of solvation as a concept which covers quite generally the interactions between a molecular solute particle and a macroscopic body of surrounding solvent is well recognized. Solvation plays a major role in the distribution of elements in the geo and hydrosphere and most chemical and biological processes involve solvated reactants and products the electronic and molecular structure of which are strongly determined by solvation. This three volume monograph has been written collectively by 50 authors from 14 countries who are specialists in different areas of solvation science. Part A deals with the theory of solvation. Part B is entirely devoted to spectroscopy of solvation and Part C covers solvation phenomena in specific physical chemical and biological systems. The volumes will be an invaluable reference source for physicists, physical chemists and biophysicists undertaking investigations into the diversified and fascinating areas of the physics and chemical physics of solvation at postgraduate and professional research levels.

MATH/CHEM/COMP 1988 Ante Graovac, 1989

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