Systematics of the Electronic Spectra of Conjugated Molecules

COVER COMING SOON

K.N. Rao

Systematics of the Electronic Spectra of Conjugated Molecules: a Source Book. Papers of the Chicago Group, 1949-1964, John R. Platt and Co-workers, Etc University of Chicago. Laboratory of Molecular Structure and Spectra, John Rader Systematics of the Electronic Spectra of Conjugated Molecules ,1964 **Systematics of the Electronic Spectra of Conjugated Molecules** John Rader Platt, 1964 **Systematics of the Electronic Spectra of** Conjugated Molecules: a Source Book ,1964 Electronic Absorption Spectra and Geometry of Organic Molecules Hiroshi Suzuki, 2012-12-02 Electronic Absorption Spectra and Geometry of Organic Molecules An Application of Molecular Orbital Theory focuses on electronic absorption spectra of organic compounds and molecules The book begins with the discussions on molecular spectra electronic absorption spectra of organic compounds and practical measures of absorption intensity The text also focuses on molecular orbital theory and group theory Molecular state functions fundamental postulates of quantum theory representation of symmetry groups and symmetry operations and symmetry groups are described The book also discusses shape of absorption bands and geometry of excited electronic states effect of environment on electronic absorption spectra and the application of simple LCAO MO method to simple p systems An evaluation of the parameters used in simple LCAO MO method is presented The text notes the usefulness and restrictions of simple LCAO MO method in the interpretation of electronic absorption spectra. The correlation between results of simple MO calculation and spectral data in aromatic hydrocarbons and correlation between results of simple MO calculation and spectral data in conjugated linear polyenes are discussed The book also looks at MO methods and the relations between electronic absorption spectra and geometry of molecules biphenyl styrene and related compounds The text is a good source of data for researchers and chemistry students who want to study electronic absorption spectra Systematics of the Electronic Spectra of Conjugated Molecules John R. Platt, Chicago Group 1949-1964, 1964 **Systematics of the Electronic Spectra of** 

Conjugated Molecules: a Source Book. Papers of the Chicago Group, 1949-1964: John R. Platt and Co-workers,

Molecular Spectroscopy K.N. Rao, 2012-12-02 Molecular Spectroscopy Modern Research explores the advances in several phases of research in molecular spectroscopy This eight chapter book commemorates the 25th anniversary of the annual Columbus Symposium on Molecular Structure and Spectroscopy held in September 1970 This book highlights the spectroscopic studies of molecular species in the gas phase and in matrices Representative articles are also included that cover the applications of molecular studies in a wide variety of areas such as biophysics astrophysical problems and energy transfer processes Other chapters describe the progress achieved in the technology of high resolution spectroscopy and the techniques and terminology of Lamb dip spectroscopy A comprehensive bibliography is included for most of the subjects discussed and this text concludes with tables of standard data listing secondary wavelength standards fundamental constants atomic masses and conversion factors of interest to spectroscopists Spectroscopists chemists and researchers will find this

work invaluable Catalog of Books and Reports in the Bureau of Mines Technical Library, Pittsburgh, Pa United States. Bureau of Mines. Technical Library, Pittsburgh, 1968 Cyclobutadiene and Related Compounds M.P. Cava, 2012-12-02 Cyclobutadiene and Related Compounds describes the four membered carbocyclic compounds that have only trigonally hybridized carbon atoms in the ring The book discusses the chemistry of cyclobutadiene and the substituted cyclobutadienes including the preparation of cyclobutadiene metal complexes that can be done in four ways These are 1 by reaction of acetylenes with transition metal compounds 2 from cyclobutenyl metal complexes 3 by transformation of other cyclobutadiene metal complexes and 4 by trapping cyclobutadienes with transitional metal compounds The text also describes cyclobutadiene dianion the chemistry of the cyclobutadienequinones the condensed methylenecyclobutene aromatic systems and the higher aromatic analogs of benzocyclobutadiene The book cites proofs of the structure of biphenylene using chemical and physical methods. The text also presents theoretical aspects of the cyclobutadiene problem including studies regarding the electronic state of cyclobutadiene the comparisons of some of these studies the framework energies and Janh Teller considerations and the substituted cyclobutadienes cyclobutadiene divalent ions and metal complexes This book is suitable for scientists and researchers working in the field of organic chemistry analytical chemistry and molecular physics

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