

The spectra and
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free radicals : an
introduction to
molecular spectroscopy.

Herzberg, Gerhard

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Spectra And Structures Of Simple Free Radicals An Introduction To Molecular Spectroscopy

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Spectra And Structures Of Simple Free Radicals An Introduction To Molecular Spectroscopy:

The Spectra and Structures of Simple Free Radicals Gerhard Herzberg, 1988-01-01 Authoritative and clearly written Applied Optics The direct observation of short lived free radicals and the consequent study of their structure and reactions have led to important developments in almost every branch of chemistry as well as in other areas This volume by a Nobel laureate offers an excellent introduction to the essentials of molecular spectroscopy The introductory chapter discusses experimental methods and illustrates the observed spectra of various molecules and free radicals Subsequent chapters explore rotational vibrational and electronic energy levels of diatomic molecules and ions radiative transitions linear and nonlinear polyatomic radicals and ions continuous and diffuse spectra predissociation and pre ionization and recombination The well illustrated text features more than 100 figures and spectra A distilled version of the author's monumental three volume study *Molecular Spectra and Molecular Structure* it constitutes a superb resource for anyone wishing a concise but complete treatment of the fundamentals of molecular spectroscopy **Atomic and Molecular Spectroscopy** Sune Svanberg, 2003-12-04 A wide ranging review of modern spectroscopic techniques such as X ray photoelectron optical and laser spectroscopy and radiofrequency and microwave techniques On the fundamental side the book focuses on physical principles and the impact of spectroscopy on our understanding of the building blocks of matter while in the area of applications particular attention is given to those in chemical analysis photochemistry surface characterisation environmental and medical diagnostics remote sensing and astrophysics The Fourth Edition also provides the reader with an update on laser cooling and trapping Bose Einstein condensation ultra fast spectroscopy high power laser matter interaction satellite based astronomy and spectroscopic aspects of laser medicine **Optical Spectroscopy: Fundamentals And Advanced Applications** Emil Roduner, Tjaart Kruger, Patricia Forbes, Katharina Kress, 2018-12-27 Developments in optical spectroscopy have taken new directions in recent decades with the focus shifting from understanding small gas phase molecules towards applications in materials and biological systems This is due to significant interest in these topics which has been facilitated by significant technological developments Absorption luminescence and excited state energy transfer properties have become of crucial importance on a large scale in materials related to light harvesting in organic and inorganic third generation solar cells for solar water splitting and in light emitting diodes TV screens and many other applications In addition Förster resonance energy transfer can be used as a ruler for the characterisation of the structure and dynamics of DNA proteins and other biomolecules via labelling with fluorescing markers This advanced textbook covers a range of these applications as well as the basics of absorption emission and energy transfer of molecular systems in the condensed phase in addition to the corresponding behaviour of metal nanoparticles and semiconductor quantum dots Technical experimental requirements aspects to avoid interfering perturbations and methods of quantitative data analysis make this book accessible and ideal for students and researchers in physical chemistry biophysics and nanomaterials **Optical Astronomical**

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The General Theory of Dirichlet's Series G. H. Hardy, Marcel Riesz, 2013-01-23 This classic work explains the theory and formulas behind Dirichlet s series and offers the first systematic account of Riesz s theory of the summation of series by typical means Its authors rank among the most distinguished mathematicians of the twentieth century G H Hardy is famous for his achievements in number theory and mathematical analysis and Marcel Riesz s interests ranged from functional analysis to partial differential equations mathematical physics number theory and algebra Following an introduction the authors proceed to a discussion of the elementary theory of the convergence of Dirichlet s series followed by a look at the formula for the sum of the coefficients of a Dirichlet s series in terms of the order of the function represented by the series They continue with an examination of the summation of series by typical means and of general arithmetic theorems concerning typical means After a survey of Abelian and Tauberian theorems and of further developments of the theory of functions represented by Dirichlet s series the text concludes with an exploration of the multiplication of Dirichlet s series

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