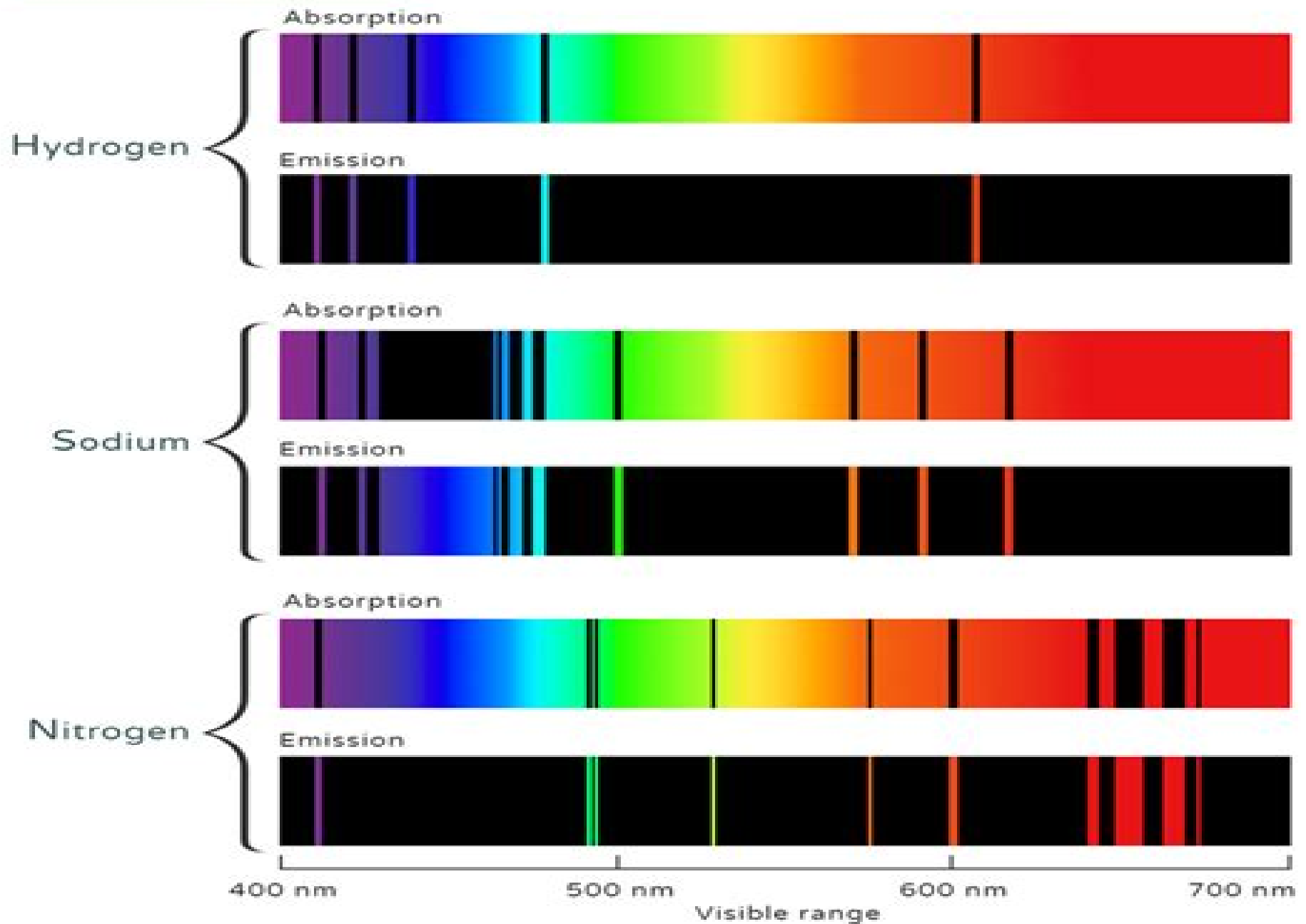


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Structure and Spectra of Atoms Richards W G, Scott P R, 1976 Atomic Spectra and Atomic Structure Gerhard Herzberg, John William Tranter Spinks, 1944-01-01 For beginners and specialists in other fields the Nobel Laureate s introduction to atomic spectra and their relationship to atomic structures stressing basics in a physical rather than mathematical treatment 80 illustrations **The Theory of Spectra and Atomic Constitution: Three Essays** Niels Bohr, 2024-02-02 Embark on a journey through the foundational principles of atomic physics with The Theory of Spectra and Atomic Constitution Three Essays by Niels Bohr Explore the revolutionary insights and groundbreaking theories that laid the groundwork for modern quantum mechanics As Bohr s seminal essays unfold delve into the intricacies of atomic structure and spectral analysis Follow along as Bohr challenges traditional models of atomic behavior and introduces a new framework that revolutionized our understanding of the microscopic world But amidst the exploration of atomic constitution lies a fundamental question How do we reconcile the complexities of atomic spectra with our classical understanding of physics Bohr s pioneering work provides the answer offering a glimpse into the quantum realm where particles defy conventional logic Experience the thrill of scientific discovery as Bohr s essays shed light on the mysteries of the atom and its behavior Let his insights inspire you to question the nature of reality and embrace the strange and wonderful world of quantum mechanics Are you ready to journey into the heart of atomic physics with Niels Bohr Join Bohr as he unveils the secrets of atomic spectra and atomic constitution paving the way for a new era of scientific inquiry Let his essays be your guide as you explore the frontiers of quantum mechanics and the mysteries of the subatomic world Now is the time to delve into the foundational principles of atomic physics with Niels Bohr Embrace the beauty of scientific exploration and expand your understanding of the universe with this groundbreaking collection of essays Purchase your copy now and embark on a journey of intellectual discovery and scientific enlightenment Atomic Spectra and Atomic Structure Gerhard Herzberg, 195? Atomic Structure and Spectral Lines Arnold Sommerfeld, 1923 **The Theory of Spectra and Atomic Constitution** Niels Bohr, 1922 The World of Atoms Arthur Erich Haas, 1928 **Atomic Spectra and Radiative Transitions** I.I.

Sobelman, 2013-04-17 My previous book on the theory of atomic spectra was published in Russian about fifteen years ago. Besides the traditional problems usually included in a book on atomic spectroscopy, some other problems arising in various applications of spectroscopic methods were also discussed in the book. These include, for example, continuous spectrum radiation, excitation of atoms and spectral line broadening. Extensive revisions were made in the English version of the book published by the Pergamon Press in 1972, especially in the chapter devoted to the problem of excitation of atoms. This book is intended as the first part of a two-volume presentation of the theory of atomic spectra: atomic radiative transitions, excitation of atoms and spectral line broadening. The aim in preparing these new books has been to stress the problems connected with the most interesting applications of atomic spectroscopy to plasma diagnostics, astrophysics, laser physics and other fields which have been developed very intensively in recent years. The content of this first volume devoted to the systematics of atomic spectra and radiative transitions is similar to that of Chapters 1, 6, 8 and 9 of the old book, but considerable revision has been made. Some sections such as those on the Hartree-Fock method, the Dirac equation and relativistic corrections have been deleted. At the same time, more attention is paid to radiative transitions. More extensive tables of oscillator strengths, probabilities and effective cross sections of radiative transitions in discrete and continuous spectra are given.

Molecular Spectra and Molecular Structure: Spectra of diatomic molecules. 2d ed. With the co-operation, in the first edition, of J.W.T. Spinks. Gerhard Herzberg, 1939

Theory of Atomic Spectra Igor' Il'ich Sobel'man, 2006 Covers the systematics of atomic spectra including the relativistic corrections in the spectra of highly charged ions. This book includes detailed treatment of the radiative transitions both in discrete and continuous spectra with extensive tables of dipole and quadrupole oscillator strengths, probabilities and effective cross sections.

Introduction to Molecular Structure and Spectroscopy William A. Guillory, 1977

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distinguishing between the concepts of correlation and causation Introduction to the Theory of Atomic Spectra I. I. Sobel'Man, 2016-04-20 Introduction to the Theory of Atomic Spectra is a systematic presentation of the theory of atomic spectra based on the modern system of the theory of angular momentum Many questions which are of interest from the point of view of using spectroscopic methods for investigating various physical phenomena including continuous spectrum radiation excitation of atoms and spectral line broadening are discussed This volume consists of 11 chapters organized into three sections After a summary of elementary information on atomic spectra including the hydrogen spectrum and the spectra of multi electron atoms the reader is methodically introduced to angular momentum systematics of the levels of multi electron atoms and hyperfine structure of spectral lines Relativistic corrections are also given consideration with particular reference to the use of the Dirac equation to determine the stationary states of an electron in an arbitrary electromagnetic field In addition the book explores the Stark effect and the Zeeman effect the interaction between atoms and an electromagnetic field and broadening of spectral lines The final chapter is devoted to the problem of atomic excitation by collisions This book is intended for advanced course university students postgraduate students and scientists working on spectroscopy and spectral analysis and also in the field of theoretical physics **Publications of the National Institute of Standards and Technology ... Catalog** National Institute of Standards and Technology (U.S.), 1974 **Publications of the National Bureau of Standards, 1973 Catalog** United States. National Bureau of Standards, 1974 **Publications of the National Bureau of Standards** United States. National Bureau of Standards, 1973 *NBS Special Publication*, 1968 Publications United States. National Bureau of Standards, 1970 **The Atom and the Bohr Theory of Its Structure** Helge Holst, Hendrik Anthony Kramers, 1923

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