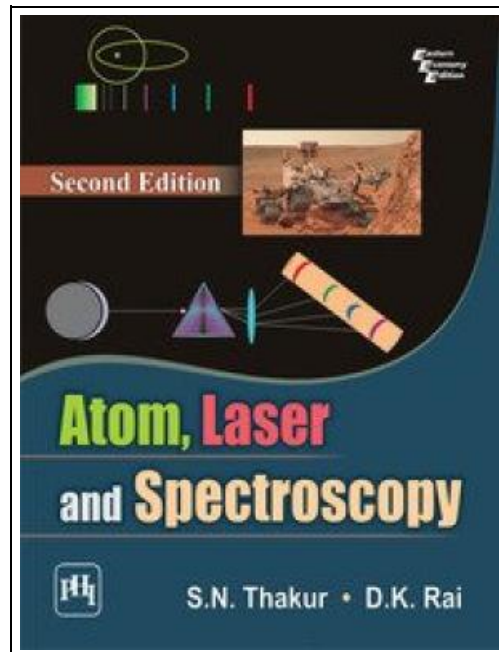


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Reviews

It is just one of my personal favorite books. I was able to comprehend every little thing out of this published e-publication. It is extremely difficult to leave it before concluding, once you begin to read the book.
(Isaac Olson)

ATOM, LASER AND SPECTROSCOPY (SECOND EDITION)



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PHI Learning 0. Softcover. Book Condition: New. 2nd edition. Experimental spectroscopic techniques, especially those involving lasers, have wide-ranging applications in the fields of physics, medicine, electronics, and chemistry. Keeping in mind the importance of spectroscopic detection and characterization of atomic and molecular species, this book, now in its Second Edition, is updated. It deals with both the conventional and modern experimental techniques related to atoms, spectroscopy and lasers. It discusses the recent innovations, types and operating principles of lasers and laser systems. A section on Fiber Laser has been added in the new edition of the book. Recent developments in planetary detection of atoms and molecules by Laser Induced Breakdown Spectroscopy (LIBS) has prompted the inclusion of a section on LIBS on planet Mars along with its applications. Primarily intended as a text for undergraduate and postgraduate students of Physics in various Indian universities, this uptodate book would be immensely useful also for both undergraduate and postgraduate students in Chemistry, Astrophysics, Metallurgy and Material Science, and Geology and Mining. Key Features Coverage is quite extensive to cater to students of most Indian universities?with detailed discussions on atoms, spectroscopy and lasers. Gives special emphasis on modern aspects of spectroscopy such as laser cooling of atoms. Contains more than 140 diagrams to illustrate the concepts better. Contents: Preface 1. Quantization of Electromagnetic Radiations 2. Line Spectra of Atoms and the Old Quantum Theory 3. Quantum Mechanics and the Central Field Approximation in Atoms 4. Radiation from Atoms and Selection Rules 5. Periodic Classification of Atoms and the Pauli Exclusion Principle 6. Spectra of Alkali Atoms 7. Spectra of Atoms with two Valence Electrons and the Vector Model of Atom 8. Effect of Static Fields on Spectral Lines 9. The Effect of Nucleus in Atomic Spectra 10. Spectral Line Broadening and High Resolution...



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