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Nota di contenuto	Contents; List of acronyms; PART I: INTRODUCTION TO LIGHT-ATOM INTERACTIONS; PART II: ADVANCED TOPICS; Appendix A: Constants, units, and notations; Appendix B: Units of energy, frequency, and wavelength; Appendix C: Reference data for hydrogen and the alkali atoms; Appendix D: Classical rotations; Appendix E: Nonlinear magneto-optical rotation with hyperfine structure; Appendix F: The Atomic Density Matrix software package; Bibliography; Index
Sommario/riassunto	This book is addressed at upper-level undergraduate and graduate students involved in research in atomic, molecular, and optical Physics. It will also be useful to researchers practising in this field. It gives an intuitive, yet sufficiently detailed and rigorous introduction to light-atom interactions with a particular emphasis on the symmetry aspects of the interaction, especially those associated with the angular momentum of atoms and light. The book will enable readers to carryout practical calculations on their own, and is richly illustrated with examples drawn from current research topic