


[DOWNLOAD](#)


Optical Resonance and Two-Level Atoms

By Physics

Dover Publications. Paperback. Book Condition: New. Paperback. 256 pages. Dimensions: 8.4in. x 4.9in. x 0.6in. Coherent and lucid valuable summary of a subject to which the authors have made significant contributions by their own research. Contemporary Physics Offering an admirably clear account of the basic principles behind all quantum optical resonance phenomena, and hailed as a valuable contribution to the literature of nonlinear optics, this distinguished work provides graduate students and research physicists probing fields such as laser physics, quantum optics, nonlinear optics, quantum electronics, and resonance optics an ideal introduction to the study of the interaction of electromagnetic radiation with matter. The book first examines the applicability of the two-level model for atoms to real atoms, then explores semiclassical radiation theory, and derives the optical Bloch equations. It then examines Rabi inversion, optical nutation, free-induction decay, coherent optical transient effects, light amplification, superradiance, and photon echoes in solids and gases. Before the publication of this book, much of the material discussed was widely scattered in other books and research journals. This comprehensive treatment brings it together in one convenient resource. The style of writing is clear and informal and the emphasis throughout is always on the physics of the processes taking...



[READ ONLINE](#)
[4.08 MB]

Reviews

An incredibly amazing ebook with perfect and lucid answers. It is written in basic terms and never difficult to understand. It's been written in an exceptionally basic way and it is only right after I finished reading this ebook in which in fact modified me, affect the way I really believe.

-- Beverly Hoppe

Extremely helpful for all class of individuals. Better than never, though I am quite late in start reading this one. I realized this publication from my I and dad suggested this ebook to discover.

-- Adela Schroeder II