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$\hat{H} = \hbar \omega (a^\dagger + a) \rho + \hbar \omega a^\dagger a \rho + \hbar \omega \rho a^\dagger a$ (4.2.2) Using results from the previous problem, we obtain $\dot{\rho} = -\frac{i}{\hbar} [\hat{H}, \rho] + \mathcal{L}(\rho)$ $\rho(t) = e^{-i\hat{H}t/\hbar} \rho(0) e^{i\hat{H}t/\hbar} + \int_0^t e^{-i\hat{H}(t-t')/\hbar} \mathcal{L}(\rho(t')) e^{i\hat{H}(t-t')/\hbar} dt'$ where we have used $\mathcal{L}(\rho) = -\frac{i}{\hbar} [\hat{H}, \rho] + \mathcal{L}(\rho)$.

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Publisher Description

Principles of Laser Spectroscopy and Quantum Optics is an essential textbook for graduate students studying the interaction of optical fields with atoms. It also serves as an ideal reference text for researchers working in the fields of laser spectroscopy and quantum optics. The book provides a rigorous introduction to the prototypical problems of radiation fields interacting with two- and three-level atomic systems. It examines the interaction of radiation with both atomic vapors and condensed matter systems, the density matrix and the Bloch vector, and applications involving linear absorption and saturation spectroscopy. Other topics include hole burning, dark states, slow light, and coherent transient spectroscopy, as well as atom optics and atom interferometry. In the second half of the text, the authors consider applications in which the radiation field is quantized. Topics include spontaneous decay, optical pumping, sub-Doppler laser cooling, the Heisenberg equations of motion for atomic and field operators, and light scattering by atoms in both weak and strong external fields. The concluding chapter offers methods for creating entangled and spin-squeezed states of matter. Instructors can create a one-semester course based on this book by combining the introductory chapters with a selection of the more advanced material. A solutions manual is available to teachers. Rigorous introduction to the

interaction of optical fields with atoms Applications include linear and nonlinear spectroscopy, dark states, and slow light Extensive chapter on atom optics and atom interferometry Conclusion explores entangled and spin-squeezed states of matter Solutions manual (available only to teachers)

This book develops the theoretical and experimental basis of quantum optics, i.e. the interaction of individual particles of light (photons) with matter, starting from elementary quantum theory. The self-contained exposition will be useful to graduate students in physics, engineering, chemistry, and senior undergraduates in physics.

This book attempts to bridge in one step the enormous gap between introductory quantum mechanics and the research front of modern optics and scientific fields that make use of light. Hence, while it is suitable as a reference for the specialist in quantum optics, it will also be useful to the non-specialists from other disciplines who need to understand light and its uses in research. With a unique approach it introduces a single analytic tool, namely the density matrix, to analyze complex optical phenomena encountered in traditional as well as cross-disciplinary research. It moves swiftly in a tight sequence from elementary to sophisticated topics in quantum optics, including laser tweezers, laser cooling, coherent population transfer, optical magnetism, electromagnetically induced transparency, squeezed light, quantum information science and cavity quantum electrodynamics. A systematic approach is used that starts with the simplest systems - stationary two-level atoms - then introduces atomic motion, adds more energy levels, and moves on to discuss first-, second-, and third-order coherence effects that are the basis for analyzing new optical phenomena in incompletely characterized systems. Unconventional examples and original problems are used to engage even seasoned researchers in exploring a mathematical methodology with which they can tackle virtually any new problem involving light. An extensive bibliography makes connections with mathematical techniques and subject areas which can extend the benefit readers gain from each section. This revised edition includes over 40 new problems (for a total of 110 original problems with an instructor's solution manual), as well as completely new sections on quantum interference, Fano resonance, optical magnetism, quantum computation, laser cooling of solids, and irreducible representation of magnetic interactions. Literature references to current ultrafast science, nonlinear optics, x-ray and high-field physics topics have doubled at the end of chapters 5, 6, and 7; the subject index has also been significantly expanded.

From the reviews: "Haus' book provides numerous insights on topics of wide importance, and contains much material not available elsewhere in book form. [...] an indispensable resource for those working in quantum optics or electronics." Optics & Photonics News

Readers studying the abstract field of quantum physics need to solve plenty of practical, especially quantitative, problems. This book contains tutorial problems with solutions for the textbook Quantum Physics for Beginners. It places emphasis on basic problems of quantum physics together with some instructive, simulating, and useful applications.

Written primarily for advanced undergraduate and masters level students in physics, this text includes a broad range of topics in applied quantum optics such as laser cooling, Bose-Einstein condensation and quantum information processing.

This book demonstrates that a quantum communication system using the coherent light of a laser can achieve performance orders of magnitude superior to classical optical communications Quantum Communications provides the Masters and PhD signals or communications student with a complete basics-to-applications course in using the principles of quantum mechanics to provide cutting-edge telecommunications. Assuming only knowledge of elementary probability, complex analysis and optics, the book guides its reader through the fundamentals of vector and Hilbert spaces and the necessary quantum-mechanical ideas, simply formulated in four postulates. A turn to practical matters begins with and is then developed by: development of the concept of quantum decision, emphasizing the optimization of measurements to extract useful information from a quantum system; general formulation of a transmitter-receiver system particular treatment of the most popular quantum communications systems—OOK, PPM, PSK and QAM; more realistic performance evaluation introducing thermal noise and system description with density operators; consideration of scarce existing implementations of quantum communications systems and their difficulties with suggestions for future improvement; and separate treatment of quantum information with discrete and continuous states. Quantum Communications develops the engineering student's exposure to quantum mechanics and shows physics students that its theories can have practically beneficial application in communications systems. The use of example and exercise questions (together with a downloadable solutions manual for instructors, available from <http://extras.springer.com/>) will help to make the material presented really sink in for students and invigorate subsequent research.

The book gives a broad coverage of the basic elements necessary to understand and carry out research in quantum optics. It presents a variety of theoretical tools and important results for two-level and semiconductor media, many of which could only be found in the original literature of in specialized monographs up to now. The text reveals the close connection between many seemingly unrelated topics. The book "e;Quantum Optics"e; has been written to meet the requirement of the degree and post graduate students. The subject matter has been discussed in such a simple way that the students will find no difficult to understand it. Most of the examples given in the book have been selected from various university examination papers and the book cover the syllabus of almost all the universities.

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The material for these volumes has been selected from the past twenty years' examination questions for graduate students at University of California at Berkeley, Columbia University, the University of Chicago, MIT, State University of New York at Buffalo, Princeton University and University of Wisconsin.

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