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although the basic principles of lasers have remained unchanged in the past 20 years there has been a shift in the kinds of lasers generating interest providing a comprehensive introduction to the operating principles and applications of lasers this second edition of the classic book on the subject reveals the latest developments and applications of lasers placing more emphasis on applications of lasers and on optical physics the book's self contained discussions will appeal to physicists chemists optical scientists engineers and advanced undergraduate students

this book examines the nature of the coherent excitation produced in atoms by lasers it examines the detailed transient variation of excited state populations with time and with controllable parameters such as laser frequency and intensity

the meeting will provide an up to date state of the art exposition of results and techniques concerning theoretical and experimental studies of optical devices showing strong non linear behaviour special attention will be paid towards the production of intense squeezed and sub poissonian light formation of spatial patterns in laser systems atomic dynamics in intense laser fields and the characterization of instabilities and chaotic dynamics in optical media

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