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an incoming photon of a  
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- Incident photon must have an energy corresponding to the energy difference between the upper and lower states and the

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organizationstarts from  
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laser can be considered  
to consists of three  
elements, namely the  
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(whenever possible)

either to review papers or to papers of seminal importance. The organization of the book is based on the fact that a laser can be thought of as consisting of three elements: (i) an active material, (ii) a pumping system, and (iii) a suitable resonator. Accordingly, after an introductory chapter, the

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next three chapters deal, respectively, with the interaction of radiation with matter, pumping processes, and the theory of passive optical resonators.

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void. Following some initial exercises related to general aspects in laser physics (Chapt. 1), the subsequent problems are organized along the following topics: (i) Interaction of radiation with matter either made of atoms or ions, weakly interacting with surrounding species, or made of more complicated elements

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Lasers such as molecules or semiconductors (Chapters 2 and 3). (ii) Wave propagation in optical media and optical resonators (Chapters 4 and 5). (iii) Optical and electrical pumping processes and systems (Chapter 6): (iv) Continuous wave and transient laser behaviors (Chapters 7 and 8). (v) Solid-state,

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dye, semiconductor, gas  
and X-ray lasers

(Chapters 9 and 10). (vi)

Properties of the output  
beam and beam

transformation by

amplification, frequency

conversion and pulse

compression or

expansion (Chapters 11

and 12). Problems are

proposed here and

solved following the

contents of Orazio

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Svelto's Principles of Lasers (fourth edition; Plenum Press, New York, 1998). Whenever needed, equations and figures of the book mentioned above are currently used with an appropriate reference [e. g. , Eq. (1. L1) of the book is referred to as Eq. (L1. 1) of PL]. One can observe, however, that the types of

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