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massless photon, originated already through the Maxwell theory of electromagnetism, is one of the basic paradigms of modern physics, ideally supported throughout both the quantum electrodynamics and the Higgs mechanism of spontaneous symmetry breaking which lays the foundations of the Standard Model of elementary particles and fundamental interactions. R. Loudon. The Quantum Theory of Light (Oxford University ...2, Quantum theory of Radiation 1. Stimulated and Spontaneous Emission 2. Macroscopic theory of absorption 3. Microscopic theory of absorption 4. The Laser 5. Lamb shift 6.

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Chapter 4 The quantum theory of light

Introduction: The photon

1.1 Planck's radiation law and the Einstein coefficients

3 1.1 Density of field modes in a cavity

4 1.2 Quantization of the field energy

7 1.3 Planck's law

10 1.4 Fluctuations in photon number

13 1.5 Einstein's A and B coefficients

16 1.6 Characteristics of the three Einstein

transitions

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