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Light and Matter: Electromagnetism, Optics, Spectroscopy ...

Preface. 1 Electromagnetic radiation. 1.1 Brief history of the interaction of light and matter. 1.2 Light in vacuum. 1.3 Matter-source of light. 2 Phenomenology of light propagation in matter. 2.1 Absorption of light. 2.2 Nonlinear absorption. 2.3 Index of refraction. 2.4 Optical phenomena in nonisotropic media. 2.5 Electric field effects. 2.6 Acousto-optic effects. 2.7 Magnetic field effects ...

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Optics - Wikipedia

Optics is a branch of physics that deals with the determination of

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behavior and the properties of light, along with its interactions with the matter and also with the instruments which are used to detect it. Optics, in a simple manner, is used to describe the behavior of visible light, infrared light, and the ultraviolet.

Optics - The Branch of Physics Consisting Properties of Light

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Light and Matter: open-source physics textbooks

books > Light and Matter. This is an introductory text intended for a one-year introductory course of the type typically taken by biology majors, or for AP Physics 1 and 2. Algebra and trig are

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used, and there are optional calculus-based sections. My text for physical science and engineering majors is Simple Nature.

Light and Matter, an online physics textbook

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Light - Reflection and refraction | Britannica

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Introduces the reader to the nature of light * Explains the key

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or a few atoms and energy scales around several electron volts.:
1356 The three areas are closely interrelated. AMO theory
includes classical, semi-classical and quantum treatments.
Typically, the theory and applications of emission, absorption,
scattering of ...

Atomic, molecular, and optical physics - Wikipedia

Covering the interaction of light and matter, including theory,
practical consequences and applications, Light and Matter:
Electromagnetism, Optics, Spectroscopy and Lasers provides an
introduction to the nature of light and to processes that occur as
light travels through matter. Intended mainly for scientists and
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Light and Matter Homepage - BGU

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Electromagnetism; Capacitance and inductance; The atom and $E=mc^2$ General relativity; The ray model of light; Images by reflection; Images, quantitatively; Refraction; Wave optics; Rules of randomness; Light as a particle; Matter as a wave; The atom;

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The different types of light and many beautiful electromagnetic effects in matter are introduced. The concepts of electricity, magnetism and optics are explained in an entertaining way, with as little mathematics as possible. Charges, fields, light waves and images are introduced and explored in detail.

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