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Following a semi-quantitative approach, this book presents a summary of the basic concepts, with examples and applications, and reviews recent developments in the study of optical properties of condensed matter systems. Key Features: Covers basic knowledge as well as application topics

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Reviews the nonlinear optical properties of condensed matter. The non-linear optical susceptibilities are first introduced in a phenomenological manner and the effects they describe are presented on general grounds. Then the symmetry aspects of non-linear optics are discussed. The propagation of electromagnetic fields in non-linear media are considered and the device applications they result in are described.

~~Non-linear optical properties of condensed matter - IOPscience~~

4 OPTICAL PROPERTIES OF CONDENSED MATTER AND APPLICATIONS Complex refractive index 012 3 ? / ?o K n 0 2 4 6 8 n, K ? / ? o = 0.1 ? DC 1/2 = 3 (a) 0 1 23 0 ? / ?o 0.5 1 R Reflectance (b) K n Figure 1.1 Refractive index, n and extinction coef?cient K obtained from a single electronic dipole oscillator model.

~~1 Fundamental Optical Properties of Materials I~~

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physics: Condensed-matter physics. This field, which treats the thermal, elastic, electrical, magnetic, and optical properties of solid and liquid substances, grew at an explosive... Among solid materials, the greatest theoretical advances have been in the study of crystalline materials whose simple repetitive geometric arrays of atoms are multiple-particle systems that allow treatment by quantum mechanics.

~~Condensed-matter physics | Britannica~~

To engineer the color of chocolate, it is important to get insights into the physics of light-matter interactions in such a complex solid. For this purpose, it is convenient to assume that an electromagnetic wave impinging on a piece of chocolate is subjected to ordinary specular reflection and optical scattering at particles immersed in the fat matrix [Figs. 1(a) and 1(b)].

~~Optical properties and structural coloration of chocolate ...~~

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The book consists of 16 chapters contributed by experienced and well-known scientists and groups on different aspects of optoelectronic properties of condensed matter. Most chapters are presented to be relatively independent with minimal cross referencing and chapters with complementary contents are arranged together to facilitate a reader with cross referencing, if desired.

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Condensed matter physics is the field of physics that deals with the macroscopic and microscopic physical properties of matter, especially the solid and liquid phases which arise from electromagnetic forces between atoms. More generally, the subject deals with "condensed" phases of matter, systems of very many constituents with strong interactions between them. More exotic condensed phases include the superconducting phase exhibited by certain materials at low temperature, the ferromagnetic and

~~Condensed matter physics - Wikipedia~~

Starting with the isolation of a single sheet of graphene, the study of layered materials has been one of the most active areas of condensed matter physics, chemistry, and materials science. Single-layer transition-metal dichalcogenides are direct-gap semiconducting analogs of graphene that exhibit novel electronic and optical properties. These features provide exciting opportunities for the ...

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This group incorporates molecular and optical physics, and covers a world of applications, from computational materials physics to quantum ordering to soft matter physics. Condensed matter physics overlaps considerably with materials science, as well as biological and earth sciences, and relies on fundamental developments in statistical physics and novel simulation methodologies.

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