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## Optical Properties of Thin Solid Films Dover Books on Physics

By Physics

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solid films are both functional and intrinsically interesting.

Their most familiar use is as coatings on the lenses of optical instruments, where they reduce reflections inside the instrument and produce sharper images. Their curious optical

behavior has aroused interest since Newton's time, but has been understood only in modern times through examination of

their structure by high-powered microscopes. This text treats the formation, structure, optical properties and uses of thin

films, emphasizing the causes of their anomalous optical

behavior. Beginning chapters describe the physical nature of

thin films—their formation and structure. Heavens discusses

thoroughly and practically the common thermal evaporation

and sputtering processes. The equipment used is explained and

diagrammed. Instruments employed to investigate the

structure of thin films—the optical microscope, electron

microscope and field emission microscope are described.

Photos taken through these instruments show the nonuniform

patterns formed by crystallites of silver, gold, chromium,

aluminum, nickel and other metals deposited in thin films. The

next three chapters measure the effectiveness of alkaline and

metallic thin solid films in transmitting and reflecting light.

Maxwell's equations of electromagnetic theory are presented to

calculate the intensity...



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### Reviews

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