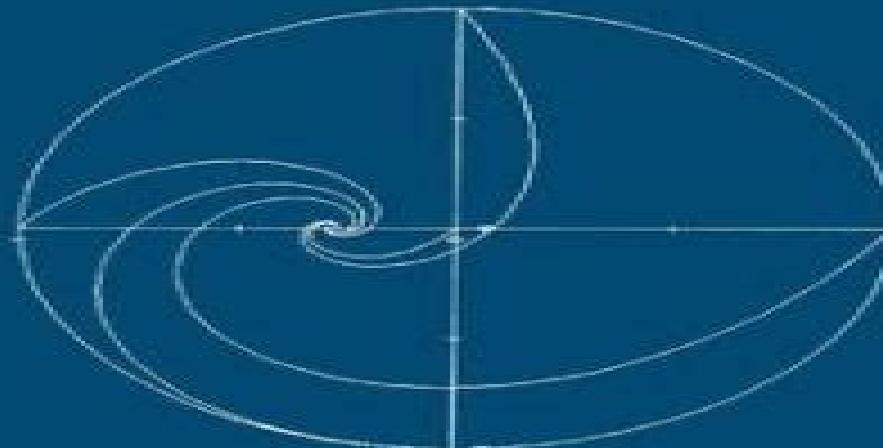


Practical Design and Production of Optical Thin Films

Second Edition, Revised and Expanded



Ronald R. Willey



CRC Press
Taylor & Francis Group

Practical Design And Production Of Optical Thin Films

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Schepis,2018-02-23 Handbook of Thin Film Deposition Fourth Edition is a comprehensive reference focusing on thin film technologies and applications used in the semiconductor industry and the closely related areas of thin film deposition thin film micro properties photovoltaic solar energy applications materials for memory applications and methods for thin film optical processes The book is broken up into three sections scaling equipment and processing and applications In this newly revised edition the handbook will also explore the limits of thin film applications most notably as they relate to applications in manufacturing materials design and reliability Offers a practical survey of thin film technologies aimed at engineers and managers involved in all stages of the process design fabrication quality assurance applications and the limitations faced by those processes Covers core processes and applications in the semiconductor industry and new developments within the photovoltaic and optical thin film industries Features a new chapter discussing Gates Dielectrics

Electromagnetic Optics of Thin-Film Coatings Claude Amra,Michel Lequime,Myriam Zerrad,2021-01-14 Three experts in the field of thin film optics present a detailed and self contained theoretical study of planar multilayers and how they can be effectively exploited in both traditional and modern applications Starting with a discussion of the relevant electromagnetic optics the fundamental optical properties of multilayers are introduced using an electromagnetic approach based on a direct solving of Maxwell's equations by Fourier transforms This powerful approach is illustrated through the comprehensive description of two of the most important phenomena in multilayers i e giant field enhancement in dielectric stacks and light scattering from thin film optical filters The same approach is extended to the description of the operation of planar microcavities and the balance of energy between radiated and trapped light This book will be valuable to researchers engineers and graduate students with interests in nanophotonics optical telecommunications observational astronomy and gravitational wave detection

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Speckle study constitutes a multidisciplinary area with inherent complexities In order to conquer challenges such as the variability of samples and sensitive measurements researchers must develop a theoretical and statistical understanding of both biological and non biological metrology using dynamic speckle laser Dynamic Laser Speckle and Applications discusses the main methodologies used to analyze biospeckle phenomena with a strong focus on experimentation After establishing a theoretical background in both speckle and biospeckle the book presents the main methodologies for statistical and image analysis It then deals with the concept of frequency decomposition before moving on to a discussion of fuzzy methods to treat dynamic speckle data The book dedicates two sections to

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