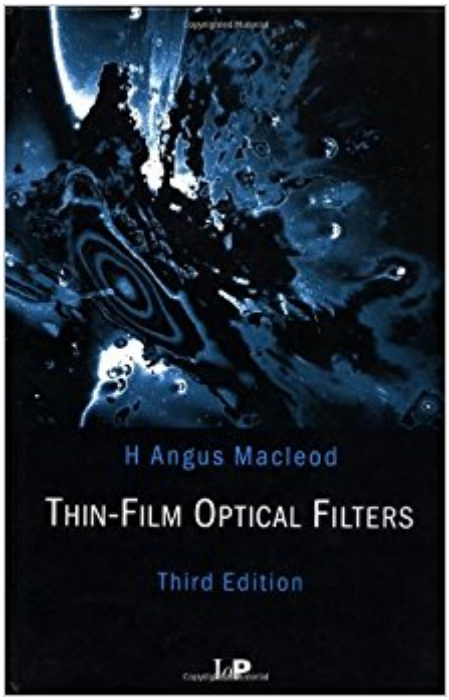
Thin-Film Optical Filters, Third Edition (Series In Optics And Optoelectronics)



Synopsis

Very common optical coatings are those that give the faint, reflected color to the lenses in cameras, binoculars, and spectacles. The thin metal layer that makes the difference between a mirror and a simple sheet of glass is an optical coating. But, optical coatings are used in many more applications-a particularly important current one being the splitting and combining of optical channels of communication that are directed through a common optical fiber. Most modern optical systems could not function without optical coatings. The telecommunications industry uses various types of coatings, such as antireflection coatings, polarizers, and dichroic coatings, in personal displays, computer monitors, and projection TV systems. Optical coatings are an integral part of semiconductor laser systems, CD and DVD optical systems, and fiber-optic networks.First published in 1969, Thin Film Optical Filters still serves as the major reference and textbook in the field. This third edition provides a unified treatment of the design, manufacture, performance, and application of optical thin films. It includes the mathematics necessary for readers to carry out thin-film calculations and contains extensive reference to the original literature. The coverage of optical filters includes antireflection and high-reflectance coatings. This is a comprehensive introduction to thin-film optical filters written for professionals in industry and those entering the field. It also provides a solid foundation for students in appropriate graduate courses.

Book Information

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Customer Reviews

… essential reading for all those involved in the design, manufacture, and application of optical

coatings. … a valuable addition to many bookshelves. -Materials World, September 2001… continues to be a very practical guide. -ASLIB Book GuideThe third edition is no less rich and includes expanded references and information on many advances in design and technology since the second edition was published in 1986 … [it] is a must-have addition to the library of any optical thin-film theorist or practitioner. It provides extensive methods to use in achieving desired optical performance for a broad range of coating types and extensive references for one to use in delving deeper into these topics. -Dale E. Morton, Denton Vacuum, LLC, SVC NewsIt is obvious from the details of his career that Angus knows more about optical coatings, both in terms of design and of fabrication, than most of us put together. It is therefore quite expected that I feel free to state that, in my opinion, this book is a necessity, rather on par with having the use of a coating facility, a good coating program, and a fast computer, for anybody in the field of thin-film optical coatings and filters. Therefore, if you are new in this field, your first priority should be to make sure that you have the undivided use of a copy of this book … All in all, the book is a good statement of the state of the art of thin-film deposition theory and practice at the turn of the millennium. -Roger M. Wood, Elsevier

This is a good book that containes the relevant materials of thin film filters and dielectric mirrors.This book also contains design examples of filters and thin film deposition methods. it very good text book as well as reference book for those who intend to work in this field.

If coatings are your thing, it is very likely that you already own this book. It is pretty much the definitive refernce on all things coating. While it is certainly a bit math-y at times, it is still very readable.

I work in a factory located in Brazil, and our business is the manufacturing of optical precision products. This book has been a great help and good evolution in the sense of helping us to develope new techniques to produce our material.

This book has got it all--practical, insightful, and well-organized. Sadly, it has got just slightly too much of it all, I found it long-winded at times. That being said, still an very good book if you are interested in such effervescent matters as light and how man attempts to control it.

Thin-Film Optical Filters, Third Edition (Series in Optics and Optoelectronics) Thin-Film Optical

Filters, Fourth Edition (Series in Optics and Optoelectronics) Handbook of Optics, Third Edition Volume V: Atmospheric Optics, Modulators, Fiber Optics, X-Ray and Neutron Optics Handbook of Optics, Third Edition Volume IV: Optical Properties of Materials, Nonlinear Optics, Quantum Optics (set) Optical Thin Films: User's Handbook (Macmillan Series in Optical and Electro-Optical Engineering) Prism and Lens Making, Second Edition: A Textbook for Optical Glassworkers (Series in Optics and Optoelectronics) Molded Optics: Design and Manufacture (Series in Optics and Optoelectronics) Optical Applications of Liquid Crystals (Series in Optics and Optoelectronics) Photonics Rules of Thumb: Optics, Electro-Optics, Fiber Optics and Lasers Polarized Light and the Mueller Matrix Approach (Series in Optics and Optoelectronics) Handbook of Silicon Photonics (Series in Optics and Optoelectronics) KDP - Family Single Crystals (Series in Optics and Optoelectronics) Handbook of Optics, Third Edition Volume I: Geometrical and Physical Optics, Polarized Light, Components and Instruments(set) Handbook of Optics, Third Edition Volume III: Vision and Vision Optics(set) Optical Fiber Communication Systems (Artech House Optoelectronics Library) The Thin Book of Appreciative Inquiry (3rd Edition) (Thin Book Series) Third Eye: Third Eye Activation Mastery, Easy And Simple Guide To Activating Your Third Eye Within 24 Hours (Third Eye Awakening, Pineal Gland Activation, Opening the Third Eye) Eat Fat, Get Thin Fast!: Eat Fat and Get Thin with the best healthy high fat recipes; Complete pictures, nutrition facts, and serving sizes for every single recipe! Fundamentals of Optical Waveguides, Second Edition (Optics and Photonics Series) ACI 318.2-14: Building Code Requirements for Concrete Thin Shells (ACI 318.2-14) and Commentary on Building Code Requirements for Concrete Thin Shells (ACI 318.2R-14)