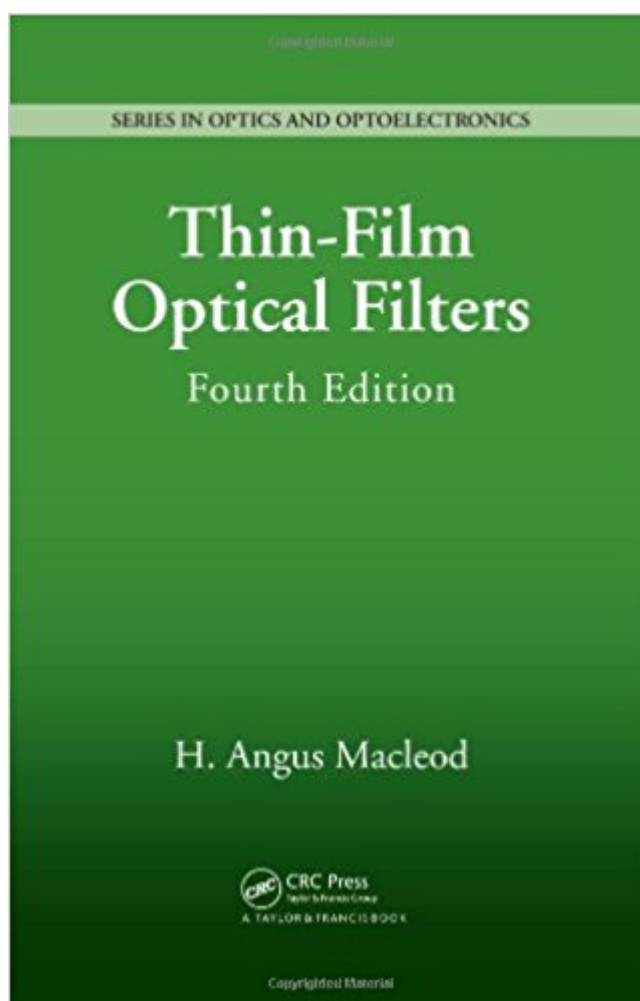


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# Thin-Film Optical Filters, Fourth Edition (Series In Optics And Optoelectronics)



## Synopsis

Written by a world-renowned authority of optical coatings, *Thin-Film Optical Filters, Fourth Edition* presents an introduction to thin-film optical filters for both manufacturers and users. The preeminent author covers an assortment of design, manufacture, performance, and application topics. He also includes enough of the basic mathematics of optical thin films to enable readers to carry out thin-film calculations. This new edition of a bestseller retains most of the descriptions of older design techniques because of their importance in understanding how designs work. However, this edition includes a substantial amount of new material as well. A new chapter on color takes into account the increasing importance of color in optical coatings. In addition, a new section discusses the effects of gain in optical coatings. This comprehensive yet accessible book continues to offer valuable insight into the principles, techniques, and processes of successful coating design. It provides the sound foundation required to make further advances in the field.

## Book Information

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## Customer Reviews

The book by Angus Macleod is the fourth edition of the famous textbook written by a world-renowned authority in the field of optical coating. This new edition retains most of the descriptions of older design techniques but also includes a substantial amount of new material. [The book is an excellent treatise of thin film coatings, explaining how to produce all sorts of different filters selected according to the function they are required to play.](#) [The book is an indispensable text for every filter manufacturer and user and is an excellent guide for](#)

students. *—* Mario Bertolotti, Contemporary Physics, April 2012 Praise for the Third Edition: *—* 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 Guide The 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 *—* 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 News It 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

H. Angus Macleod is President of the Thin Film Center Inc. in Tucson, Arizona, and Professor Emeritus of Optical Sciences at the University of Arizona.

This is a good book that contains the relevant materials of thin film filters and dielectric mirrors. This book also contains design examples of filters and thin film deposition methods. It is a 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 reference 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 develop 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.

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