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Optical Coating Technology (SPIE Press Monograph Vol. PM137)

By Philip W. Baumeister



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Organized around the key subjects associated with functions of optical thin film performance, this book provides a valuable resource in the field of thin film technology. The information is widely backed up with citations to patents and published literature. Many questions are answered, such as: what are the conventions for a given analysis formalism? and, what other design approaches have been tried for this application?

This book represents the experience of Philip Baumeister's 25 years of teaching classes on Optical Thin Film Technology at the UCLA Extension Program, and at companies worldwide.

Contents

- Foreword
- Preface
- How coatings are used and integrated into optical systems
- Fundamentals
- Thin films, the building blocks of multilayers
- Reflection reducing coatings
- Reflectors, edge filters and periodic structures
- Beamdividers and polarizers
- All-dielectric bandpass filters
- Coatings that contain absorbing layers
- Coating deposition
- Miscellaneous topics
- References to the literature
- Notation and definitions of terminology

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