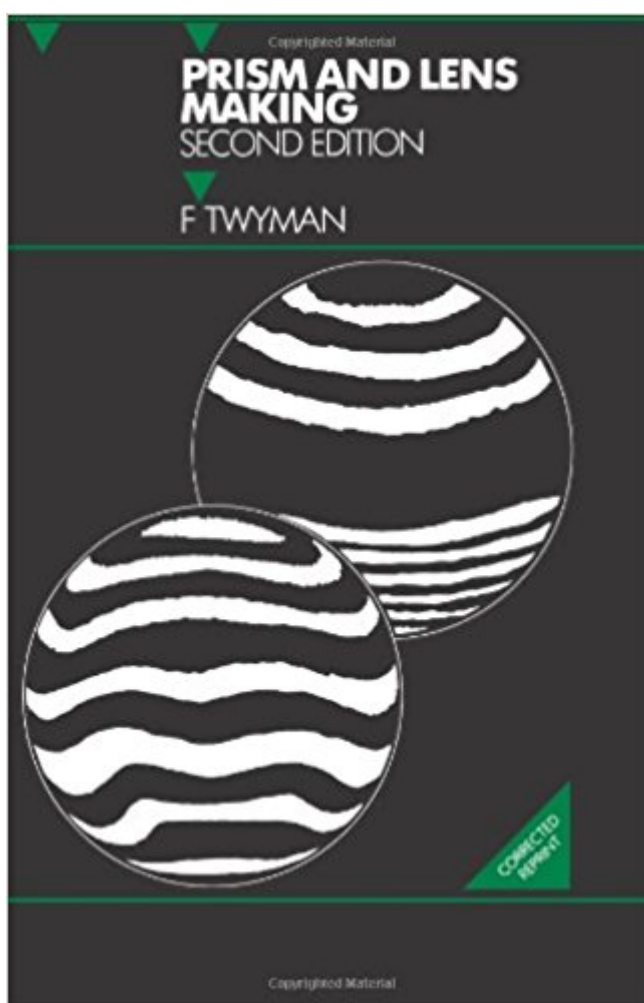


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Prism And Lens Making, Second Edition: A Textbook For Optical Glassworkers (Series In Optics And Optoelectronics)



Synopsis

Prism and Lens Making: A Textbook for Optical Glassworkers, Second Edition is a unique compendium of the art and science of the optical working of glass for the production of mirrors, lenses, and prisms. Incorporating minor corrections and a foreword by Professor Walter Welford FRS, this reissue of the 1957 edition provides a wealth of technical information and hands-on guidance gained from a lifetime of experience. Although some of the techniques have been replaced by more modern methods, this classic book is still a valuable source of practical assistance as well as being a pleasure to read. About the Author Frank Twyman was a skilled craftsman in all aspects of optics. He joined Otto Hilger in 1898 to work on the production of simple spectroscopes costing less than £10 each. After the death of Otto Hilger, Twyman became Managing Director of Adam Hilger Ltd., a company known for the finest quality optical and mechanical work. He worked here from 1902 to 1946 and was very concerned with the practical aspects of instrument making; he designed many of the instruments himself and constantly strove to improve the techniques of optical grinding and polishing. In 1916 Twyman and Alfred Green, the foreman of the Hilger optical shops, patented the now-famous prism and lens testing interferometer that bears their names. Twyman also undertook fundamental studies in the annealing process for glass and invented new spectrophotometers and spectrographs.

Book Information

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Customer Reviews

Professional opticians probably already know about this classic work by Twyman (of

Twyman-Green interferometer fame), and those who don't certainly ought to pick up a copy. However, the book holds particular interest for the 'amateur telescope maker', who still works glass with simple equipment, and can benefit from knowing about traditional optical workshop techniques.

This book was written by Frank Twyman, the author of the Twyman effect, the designer of the Twyman penetrometer, used to test pitch viscosity and many other very useful ideas for professional opticians. The book is thorough, easy to read, well illustrated and even today, worth owning.

This book is covering nearly every aspect about optics making: Grinding, polishing: techniques, used materials. Machines: How they work. Measuring: detailed explanation of the measuring techniques for lens and prism making. Anyone who want to make his own optics, usually telescoop builders, will find everything he need to know. Not much a theoretical book - there are many - but a very practical book. Although the book was first published in 1942 most of the techniques are still the same today. As a professional lensmaker I can recommend it to anyone interested in these techniques.

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