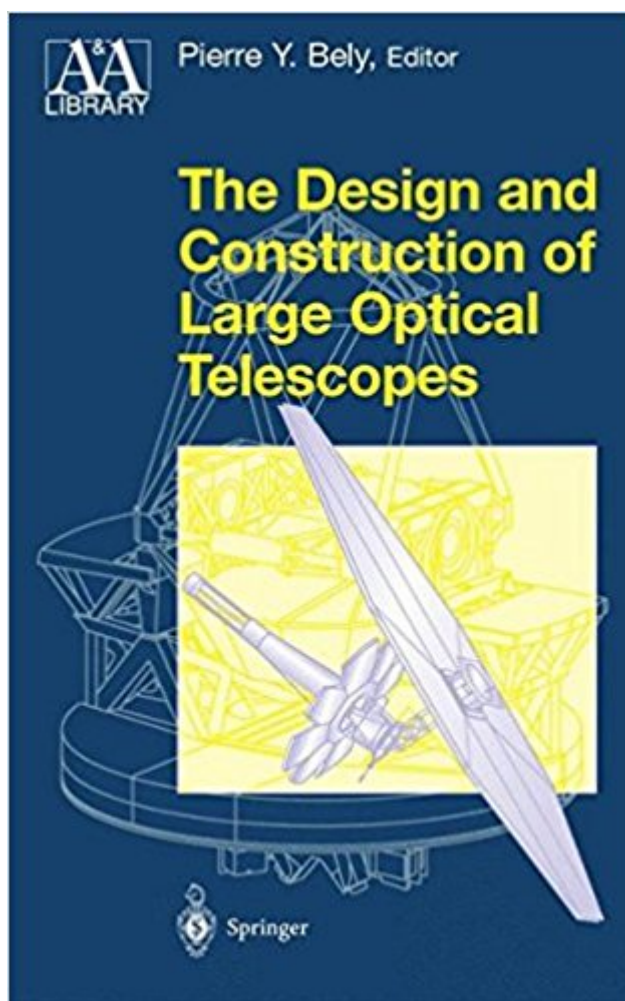


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The Design And Construction Of Large Optical Telescopes (Astronomy And Astrophysics Library)



Synopsis

There is no dearth of books on telescope optics and, indeed, optics is clearly a key element in the design and construction of telescopes. But it is by no means the only important element. As telescopes become larger and more costly, other aspects such as structures, pointing, wavefront control, enclosures, and project management become just as critical. Although most of the technical knowledge required for all these fields is available in various specialized books, journal articles, and technical reports, they are not necessarily written with application to telescopes in mind. This book is a first attempt at assembling in a single text the basic astronomical and engineering principles used in the design and construction of large telescopes.

Its aim is to broadly cover all major aspects of the field, from the fundamentals of astronomical observation to optics, control systems, structural, mechanical, and thermal engineering, as well as specialized topics such as site selection and program management. This subject is so vast that an in-depth treatment is obviously impractical. Our intent is therefore only to provide a comprehensive introduction to the essential aspects of telescope design and construction. This book will not replace specialized scientific and technical texts. But we hope that it will be useful for astronomers, managers, and systems engineers who seek a basic understanding of the underlying principles of telescope making, and for specialists who wish to acquaint themselves with the fundamental requirements and approaches of their colleagues in other disciplines.

Book Information

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Customer Reviews

If you work on medium-to-large sized optical observatories, this is a reasonably-good technical reference work for many electromechanical and optical issues.

Since I work for a privately held observatory engaged in the construction of a new telescope and facility, this book is extremely useful. I have found its treatment of all the subjects related to large telescopes very helpful and just the right level of depth for my situation.

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