



Astronomical Optics

By Daniel J. Schroeder

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Written by a recognized expert in the field, this clearly presented, well-illustrated book provides both advanced level students and professionals with an authoritative, thorough presentation of the characteristics, including advantages and limitations, of telescopes and spectrographic instruments used by astronomers of today.

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Astronomical Optics By Daniel J. Schroeder Bibliography

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Editorial Review

Review

"**Astronomical Optics** is a comprehensive presentation of the fundamental principles of optical design and engineering for astronomical remote sensing instruments. I highly recommend this book for the personal library of scientists and engineers who have a serious interest in the optical system engineering of remote sensor systems."

--ICARUS

"From the Reviews:

The book is clearly focused on its title subject, and the results are superb."

--PHYSICS TODAY

"This book is excellent....I think that it will be recognized by everyone in astronomy, telescope design, and astronomical instrument design as an outstanding book."

--D.E. Osterbrock, UNIVERSITY OF CALIFORNIA, SANTA CRUZ

"...clearly the most complete and rigorous treatment of this subject. It should become the basic reference for those considering design of astronomical instruments. A must for all instrumentalists, and observationalists should have nearby."

--C.R. O'Dell, RICE UNIVERSITY

"This is a text which sets out the general design principles of astronomical optics in a palatable way."

--NATURE

From the Back Cover

This book provides a unified treatment of the characteristics of telescopes of all types, including telescopes whose performance is set by geometrical aberrations and the effect of the atmosphere, and those diffraction-limited telescopes designed for observations from above the atmosphere. The emphasis throughout is on basic principles, such as Fermat's principle, and their application to optical systems specifically designed to image distant celestial sources. *Astronomical Optics, Second Edition* also contains thorough discussions of the principles underlying all spectroscopic instrumentation, giving special emphasis to grating instruments used with telescopes. An introduction to adaptive optics provides the needed background for further inquiry into this rapidly developing area.

Users Review

From reader reviews:

Fern Rodriquez:

Reading can called imagination hangout, why? Because if you find yourself reading a book mainly book entitled Astronomical Optics your mind will drift away trough every dimension, wandering in every single aspect that maybe unfamiliar for but surely will end up your mind friends. Imaging just about every word written in a e-book then become one type conclusion and explanation in which maybe you never get ahead of. The Astronomical Optics giving you an additional experience more than blown away your mind but also giving you useful info for your better life within this era. So now let us show you the relaxing pattern this is your body and mind are going to be pleased when you are finished examining it, like winning an activity. Do you want to try this extraordinary investing spare time activity?

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