

Download Astronomical Optics

Further Reading. Astronomical Optics, Part 3: The Astronomical Image - analysis of the image produced by a telescope and the eye that receives it. Astronomical Optics, Part 4: Optical Aberrations - an in depth review of optical aberrations in astronomical optics.

Apart from atmospheric turbulence, aberrations in astronomical optics may appear at any of three points — the telescope optics (objective lens, or primary and secondary mirrors), the eyepiece and related optics (such as a field flattener, focal extender or focal reducer), and the observer's eye.

An introduction to adaptive optics provides the needed background for further inquiry into this rapidly developing area. Show less This book provides a unified treatment of the characteristics of telescopes of all types, both those 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.

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Single surface optics and definitions. We will define an optical system as a system which collects light; usually, the system will also make images. This requires the bending of light rays, which is accomplished using lenses (refraction) and/or mirrors (reflection), using curved surfaces.

"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."

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