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astronomical optics, part 1:

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basic optics

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1. Make sure the binocular is a manageable size for long observations and invest in a tripod if required. 2.

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Reviews [December 2020 ...

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Astronomical Optics, Part 1:
Basic Optics - an overview
of basic optics.

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Astronomical Optics, Part 2: Telescope & Eyepiece Combined - the design parameters of astronomical telescopes and eyepieces, separately and combined as a system. Astronomical Optics, Part 3: The Astronomical Image - analysis of the image produced by a telescope and the eye that receives it.

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instruments used with telescopes. An introduction to adaptive optics provides the needed background for further inquiry into this rapidly developing area.

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Telescope designs for astronomy
Field of view and aberration correction
Outline, Key concepts:
Importance of the location of focus and instruments
Main reflecting telescope designs: – Newtonian (parabolic mirror) – Gregorian – Cassegrain – RC
Wide field telescope

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designs, correctors

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of telescopes and spectrographic instruments used by astronomers of today. Written by a recognized expert in the field 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

This book provides a unified treatment of the characteristics of telescopes of all types, both those whose performance is set by geometrical

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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. The book also contains thorough discussions of the principles underlying all spectroscopic instrumentation, with special emphasis on grating instruments used with telescopes. An introduction to adaptive optics provides

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the needed background for further inquiry into this rapidly developing area. Geometrical aberration theory based on Fermat's principle Diffraction theory and transfer function approach to near-perfect telescopes Thorough discussion of 2-mirror telescopes, including misalignments Basic principles of spectrometry; grating and echelle instruments Schmidt and other catadioptric telescopes Principles of adaptive optics Over 220 figures and nearly 90 summary tables

For every astronomical topic

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that I have approached there has turned out to be a broader realm of possibilities than is commonly accepted or acknowledged. The "excursions" of this book are the examples. They mostly depart from the mainstream of conventional wisdom to offer a wider perspective with opportunities for further research. While my intent is to supplement that mainstream, the effect may appear to dismiss rather than to reconsider accepted tenets. Ample praise and credit for those accomplishments are already available in textbooks.

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Readers may very well disagree with some of the notions presented in these excursions, but I hope that they will pause long enough to evaluate the scientific basis for any disagreement. For the most part, these excursions remain incomplete and unfulfilled, yet they contain many ideas that are not available elsewhere. Whether these ideas are perceived as a collection of unproven claims or as a storehouse of fresh opportunities will depend entirely on the attitude of the reader. The excursions do cover a rather wide span of disciplines, and that may lead to an unfocused overall

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impression. My hope is thereby to attract a broader audience than that of a single discipline, and to expose them to neighboring disciplines. The excursions all do have the common thread of optical science related to astronomy.

This book—unique in the literature—provides readers with the mathematical background needed to design many of the optical combinations that are used in astronomical telescopes and cameras. The results presented in the work were obtained by using a different approach to third-order aberration theory as

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well as the extensive use of the software package Mathematica®. Replete with workout examples and exercises, Geometric Optics is an excellent reference for advanced graduate students, researchers, and practitioners in applied mathematics, engineering, astronomy, and astronomical optics. The work may be used as a supplementary textbook for graduate-level courses in astronomical optics, optical design, optical engineering, programming with Mathematica, or geometric optics.

This book, written by one of the leaders in the field,

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covers the principles and theory of adaptive optics, and describes in detail how this technology can be applied to large ground-based telescopes to compensate for the effects of atmospheric turbulence. In addition to information on basic adaptive optics components and technology, there are chapters on atmospheric turbulence, optical image structure, laser beacons, and overall system design. The overall design of adaptive optics systems, including performance estimation and optimization, receives detailed treatment. This book provides a fundamental

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understanding of the physical principles of adaptive optics technology, so that it will have lasting value as a complete and accessible source of reference.

Astronomical Optics and Elasticity Theory provides a very thorough and comprehensive account of what is known in this field. After an extensive introduction to optics and elasticity, the book discusses variable curvature and multimode deformable mirrors, as well as, in depth, active optics, its theory and applications. Further, optical design

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utilizing the Schmidt concept and various types of Schmidt correctors, as well as the elasticity theory of thin plates and shells are elaborated upon. Several active optics methods are developed for obtaining aberration corrected diffraction gratings. Further, a weakly conical shell theory of elasticity is elaborated for the aspherization of grazing incidence telescope mirrors. The very didactic and fairly easy-to-read presentation of the topic will enable PhD students and young researchers to actively participate in challenging astronomical optics and

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instrumentation projects.

This text was written to provide students of astronomy and engineers an understanding of optical science—the study of the generation, propagation, control, and measurement of optical radiation—as it applies to telescopes and instruments for astronomical research in the areas of astrophysics, astrometry, exoplanet characterization, and planetary science. The book provides an overview of the elements of optical design and physical optics within the framework of the needs of the astronomical community. Features of this

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text include: • an historical perspective on the development of telescopes and their impact on our understanding of the universe • a review of the optical measurements that astronomers record, and identification of the attributes for ground and space observations • presentation of the fundamentals of optics, such as image location and size, geometrical image quality, image brightness, scalar diffraction and image formation, interference of light, and radiometry • discussion of the role of partial coherence in image formation and factors that

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affect image quality, as well as the role of optical metrology and wavefront sensing and control in astronomical telescopes • presentation of the fundamentals of optics, such as image location and size, geometrical image quality, image brightness, scalar diffraction and image formation, interference of light, and radiometry • investigations of segmented telescopes and their applications and performance metrics, sparse-aperture telescopes, and the optical challenges of designing and building telescopes or instruments for detecting and characterizing

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SPIE Milestones are collections of seminal papers from the world literature covering important discoveries and developments in optics and photonics.

Adaptive optics is set to revolutionise the future of astronomy; this is the first book on the subject and is set to become the standard reference.

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