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astronomical optics, part 1: basic optics

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astronomy at observatories such as the Swedish 1-m Solar Telescope and Big Bear Solar Observatory. It is also expected to play a military role by allowing ground-based and airborne laser weapons to reach and destroy targets at a distance including satellites in orbit.

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. Written by a recognized expert in the field Provides both advanced level students and professionals with an authoritative,

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thorough presentation of the characteristics, including advantages and limitations, of telescopes and spectrographic instruments used by astronomers of today

This text on optics and elasticity covers the field in-depth, discusses equations in an easy-to-understand manner, includes a portrait gallery of pioneers in the field, and provides students the tools conduct their own astronomical optics projects.

For every astronomical topic 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

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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. 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 impression. My hope is thereby to attract a broader audience than that of a single discipline,

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and to expose them to neighboring disciplines. The excursions all do have the common thread of optical science related to astronomy.

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 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

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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 instrumentation projects.

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 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

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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.

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

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

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

Adaptive optics is a powerful new technique used to sharpen telescope images blurred by the Earth's atmosphere. This authoritative book is the first dedicated to the use of adaptive optics in astronomy. Mainly developed for defence applications, the technique of adaptive optics has only recently been introduced in

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astronomy. Already it has allowed ground-based telescopes to produce images with sharpness rivalling those from the Hubble Space Telescope. The technique is expected to revolutionise the future of ground-based optical astronomy. Written by an international team of experts who have pioneered the development of the field, this timely volume provides both a rigorous introduction to the technique and a comprehensive review of current and future systems. It is set to become the standard reference for graduate students, researchers and optical engineers in astronomy and other areas of science where adaptive optics is finding exciting new applications.

A concise introduction, *Optical Astronomical Spectroscopy* appeals to the newcomer of astronomical spectroscopy and assumes no previous specialist

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knowledge. Beginning from the physical background of spectroscopy with a clear explanation of energy levels and spectroscopic notation, the book proceeds to introduce the main techniques of optical spectroscopy and the range of instrumentation that is available. With clarity and directness, it then describes the applications of spectroscopy in modern astronomy, such as the solar system, stars, nebulae, the interstellar medium, and galaxies, giving an immediate appeal to beginners.

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