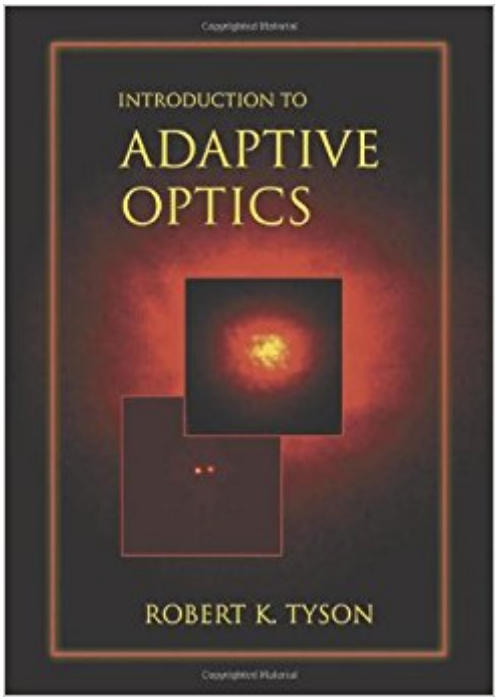
Introduction To Adaptive Optics (SPIE Tutorial Texts In Optical Engineering Vol. TT41)



Synopsis

Adaptive optics systems and components have achieved a level of sophistication and simplicity that goes beyond traditional applications in astronomy and the military and into developments in medicine, manufacturing, and communications. This book was written for those interested in the multidisciplinary technology and those who need a broad-brush explanation without wading through thousands of journal articles. It follows the structure of a one-day tutorial taught by the author, including humor and sidebars of historical material.Contents - A long time ago, in a laboratory far far, really far, away - Adaptive optics systems - Optics is our middle name - Speaking the language - a few definitions - Atmospheric turbulence - Bad air...bad, bad air - Laser guide stars - a beacon in the wilderness - Systems - putting it all together - Wavefront sensors - the eyes - Deformable mirrors - the hands - Control computers and reconstructors - the brains

Book Information

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Customer Reviews

Great overview of Adaptive Optics. It is especially good if you don’t need all the details, but enough information to work with the field, such as controls for a system using adaptive optics.

Electro-Optical Engineerirng Series) Handbook of Optics, Third Edition Volume V: Atmospheric Optics, Modulators, Fiber Optics, X-Ray and Neutron Optics Handbook of Optics, Third Edition Volume IV: Optical Properties of Materials, Nonlinear Optics, Quantum Optics (set) Photonics Rules of Thumb: Optics, Electro-Optics, Fiber Optics and Lasers Field Guide to Visual and Ophthalmic Optics (SPIE Vol. FG04) Field Guide to Geometrical Optics (SPIE Vol. FG01) Optics Made Clear: The Nature of Light And How We Use It (SPIE Press Monograph Vol. PM163) Selected Papers on Optical Pattern Recognition (SPIE Milestone Series Vol. MS156) Handbook of Optical Fibers and Cables, Second Edition (Optical Science and Engineering) Books of Breathing and Related Texts -Late Egyptian Religious Texts in the British Museum Vol.1 (Catalogue of the Books of the Dead and Other Religious Texts in the British Museum) Introduction to Optical Communication, Lightwave Technology, Fiber Transmission, and Optical Networks Quantitative Biomedical Optics: Theory, Methods, and Applications (Cambridge Texts in Biomedical Engineering) Handbook of Optics, Third Edition Volume I: Geometrical and Physical Optics, Polarized Light, Components and Instruments(set) Applications of Nonlinear Fiber Optics, Second Edition (Optics and Photonics Series) Handbook of Optics, Third Edition Volume III: Vision and Vision Optics(set) Optical Holography: Principles, Techniques and Applications (Cambridge Studies in Modern Optics) Computer Design of Diffractive Optics (Woodhead Publishing Series in Electronic and Optical Materials) Thin-Film Optical Filters, Fourth Edition (Series in Optics and Optoelectronics)