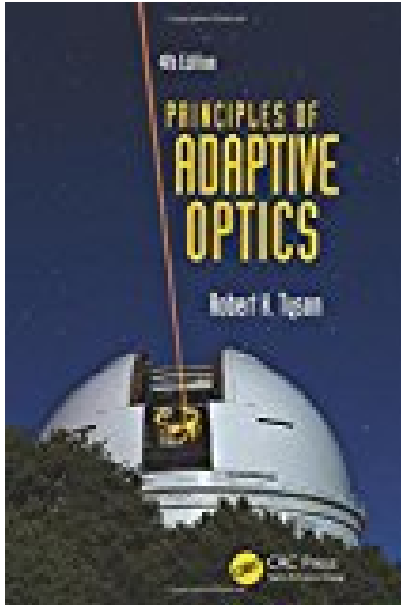


# Principles of Adaptive Optics Fourth Edition

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## BOOK DETAILS

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## BOOK SYNOPSIS

Principles of Adaptive Optics describes the foundations, principles, and applications of adaptive optics (AO) and its enabling technologies. Addressing the fundamentals of AO at the core of new uses in biomedical imaging, communications, high-energy lasers, and astronomy, this fully revised and significantly expanded Fourth Edition: Contains all-new problem sets at the end of each chapter Incorporates cutting-edge research, with hundreds of new citations Adds a new section on the practical implications of control algorithms Includes a practical roadmap for developing a viable stable multichannel control system Presents new practical calibration techniques and new information on phase diversity for wavefront sensing Updates coverage of AO systems—e.g., confocal AO scanning ophthalmoscopes and National Ignition Facility (NIF) beam path AO Features fresh material on multiconjugate adaptive optics, extra-solar planet detection, optical coherence tomography, pyramid wavefront sensors, micromachined deformable mirrors, and more Principles of Adaptive Optics, Fourth Edition provides a complete update of the most definitive text for the field.

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