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Autore	Holladay Jack T
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ISBN	1-61711-667-X
Descrizione fisica	1 online resource (141 p.)
Disciplina	617
Soggetti	Eye - Surgery Physiological optics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Understanding optics -- Astigmatism analysis : vector analysis to chart residual astigmatic error can improve the accuracy of refractive surgery -- Aspheric treatments reduce spherical aberration after cataract, refractive surgery : implanting an aspheric IOL or incorporating a prolate laser treatment into corneal refractive surgery helps reduce spherical aberration -- Vertex distance, refraction and intraocular lens power calculations : measuring vertex distance and performing over-refraction with a soft contact lens for higher prescriptions can reduce refractive surprises after IOL implantation -- Intraocular lens calculations after surgery : surgeons implanting intraocular lenses in patients who have undergone corneal refractive surgery must be precise in their measurements and calculations -- Surgical correction of presbyopia : some newer refractive surgical modalities take advantage of pupil size changes and other factors to provide good near and distance vision -- Optical improvements in excimer laser surgery : refinement of the radial compensation function and other optical concepts have helped to improve LASIK outcomes -- Zernike and Fourier polynomials : describing surfaces -- Ocular and topographic wavefront -- Understanding neural adaptation.

