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Nota di contenuto	Part 1: Introduction -- Chapter 1. Implantation of artificial intraocular lenses-a brief history (Thomas Neuhann) -- Chapter 2. Epidemiology (Lukas Bisorca-Gassendorf) -- Chapter 3. Anatomy and physiology of the anterior segment (Andreas Ohlmann) -- Chapter 4. Cataract forms and grading (Christopher Wirbelauer) -- Chapter 5. Optical principles (Kerstin Petermann) -- Chapter 6. Digital Lens surgery (Wolfgang J. Mayer) -- Part 2: Examination -- Chapter 7. Medical history (Johannes H. Burger) -- Chapter 8. Testing of visual function: visual acuity refraction contrast sensitivity (Bettina von Livonius) -- Chapter 9. Assessment of optical phenomena (Gernot Steinwender) -- Chapter 10. Slit lamp examination (Gernot Steinwender) -- Chapter 11. Binocular vision and motility (Oliver Ehrt) -- Chapter 12. Measurement of intraocular pressure (Matthias Nobl) -- Chapter 13. Eyelids (Christoph Hintschich) -- Chapter 14. Optical biometry (Oliver Findl) -- Chapter 15. Scheimpflug tomography and measurement of higher order aberrations (Jens Bühren) -- Chapter 16. OCT of the anterior segment (Nikolaus Luft) -- Chapter 17. OCT of the posterior segment (Jakob Siedlecki) -- Chapter 18. Measurement of endothelial cells (Gernot Steinwender) -- Chapter 19. Tear film analysis (Anna Maria Schuh) -- Chapter 20. Pupillometry (Helmut Wilhelm) -- Chapter 21. Congenital and childhood cataract: Examination and indication for newborns and children (Günther Rudolph) -- Chapter 22. Anaesthesia for cataract

surgery (Friedrich Lersch) -- Part 3: Choosing the right lens.-Chapter 23. Design and material of intraocular lenses (Gerd U. Auffarth) -- Chapter 24. General introduction to IOL calculation (Peter Hoffmann) -- Chapter 25. Formula optimisation and use of the IOL WEB platform IOLCon (Achim Langenbacher).

Sommario/riassunto

This book summarizes the current knowledge on lens surgery. Not only are the surgical procedures described in detail, but experts share with the reader many useful practical tips for individual surgical steps to achieve the best possible surgical result. In addition to the focus on surgery, pre- and post-operative care and complication management is also discussed in detail and a systematic review of the current literature is provided. Clear and concisely written chapters highlight topics such as the use of special lenses, femto-laser lens surgery, secondary lens implantation and phakic lens surgery throughout the book. Cataract and Lens Surgery offers a practical resource for ophthalmologists who perform lens surgery in their daily clinical practice. Clinicians navigating the different types of lens preparations and properties for routine to complex procedures will find this book to be an essential guide.
