PART I Preoperative Considerations

1 Pathology and Classification of Cataracts

2 Preoperative Evaluation and Preparation of the Cataract Patient

3 Current Concepts in Intraocular Lens Power Calculations

4 Intraocular Lens Calculations After Refractive Surgery

PART II Intraocular Lenses

5 Principles of Intraocular Lens Design and Biomaterials

6 Polymethyl Methacrylate Posterior- and Anterior- Chamber Intraocular Lenses

7 Posterior Chamber Intraocular Lenses

- 8 Toric Intraocular Lenses
- 9 Presbyopia-correcting Intraocular Lenses
- 10 Adjustment of Intraocular Lens Power

11 Modular Intraocular Lenses

- **PART III Anesthesia and Initial Steps**
- 12 Anesthesia for Cataract Surgery
- 13 Ophthalmic Viscosurgical Devices
- 14 Antibiotic Prophylaxis and Endophthalmitis
- 15 Inflammation in Cataract surgery
- 16 Incision Construction
- 17 Capsulotomy
- 18 Hydrodissection and Hydrodelineation

PART IV Nuclear Disassembly

19 Basic Principles of The Phacoemulsifier

- 20 Advanced Principles of Phacoemulsification Platforms
- 21 Extracapsular Cataract Extraction and Manual Small-incision Cataract Surgery
- 22 Principles of Nuclear Disassembly

23 Phaco Chop Techniques

24 Tilt and Tumble Supracapsular Phacoemulsification

25 Biaxial Microincision Phacoemulsification

26 Femtosecond Laser-Assisted Cataract Surgery

27 Cortical Removal

PART V Astigmatism Management

28 Preoperative Evaluation and Considerations of Astigmatism

29 Corneal Incisional Approaches for Reducing Astigmatism During Cataract Surgery

30 Toric Intraocular Lenses: Selection and Alignment Methods

31 Managing Residual Postoperative Astigmatism

PART VI Complex Cases

32 Ultradense Cataract

- 33 Intumescent Cataract
- 34 Management of Weak Zonules
- 35 Cataract Surgery in the Small Pupil
- 36 Phacoemulsification in the Glaucoma Patient
- 37 Cataract Surgery in Combination With Corneal Surgery
- 38 Cataract Surgery in Uveitic Patients
- 39 Retinal Considerations in Cataract Surgery
- 40 Pediatric Cataract Surgery
- 41 Intraocular Lens Exchange and Secondary Intraocular Lens Placement
- 42 Traumatic Cataract
- 43 Iris Repair and Iris Prosthesis
- 44 Surgery in Short and Eyes

PART VII Intraoperative Complications

- 45 Risk Management in Cataract Surgery
- 46 Intraoperative Complications
- 47 Vitrectomy for the Anterior Segment Surgeon
- 48 Issues in Wound Management
- 49 Surgical Instrument Care and Toxic Anterior Segment Syndrome

PART VIII Postoperative Complications

- 50 Corneal Edema After Cataract Surgery
- 51 Glaucoma After Cataract Surgery
- 52 Retinal Complications of Cataract Surgery
- 53 Subluxated Intraocular Lenses
- 54 Neodymium: Yttrium-Aluminum-Garnet Laser Applications in the Cataract Patient
- 55 Management of Dysphotopsia
- 56 Refractive Enhancements after Cataract Surgery