Contents

List	of contributors	Vii
Pref	face	xi
Dec	dication	xiii
1	History of the excimer and other ophthalmic refractive lasers Stephen L Trokel	1
2	Physical principles of excimer lasers Paul P van Saarloos	15
3	The development of excimer laser corneal surgery: beam tissue interactions David S Gartry	31
4	Cornea: anatomy, physiology and healing Paul G McMenamin, Christopher Steele and Charles N J McGhee	41
5	The natural history of myopia Wallace S Foulds	65
6	The principles of computerized videokeratoscopy Michael K Smolek and Stephen D Klyce	79
7	Computerized videokeratography in clinical practice Charles N J McGhee and Kathryn H Weed	97
8	Patient assessment in photorefractive surgery Kathryn H Weed and Charles N J McGhee	127
9	A very practical approach to excimer laser for myopia Charles N J McGhee, Suzanne K Webber and Con N Anastas	149
10	Psychological associations of myopia in relation to excimer laser photorefractive surgery Brian A Kidd and Cameron Stark	167
11	USA: Summit and Visx FDA studies Marguerite B McDonald and Deepak Chitkara	179
12	European experience with excimer PRK/PARK Jerry Jayamanne and Charles N J McGhee	193

13	Photorefractive keratectomy and LASIK with the Chiron-Techno	las
	Keracor 116 excimer laser: the European experience	213
	Chris P Lohmann, Jose L Guell, Helmut Sachs and Johannes Junger	
14	Photorefractive surgery in Australia and Asia Pacific	227
	David B Cano and Hugh R Taylor	
15	Photoastigmatic refractive keratectomy (PARK)	243
	Noel A Alpins, Geoffrey C Tabin and Hugh R Taylor	
16	High and extreme myopia	261
	Cathy A McCarty, Ronald M Stasiuk and Hugh R Taylor	
17	The surgical and laser correction of hypermetropia	273
	Charles N J McGhee, Con N Anastas, Lyn Jenkins,	
	Christopher M Rogers and Jean-Pierre Danjoux	
18	Excimer laser in situ keratomileusis (LASIK)	295
	George O Waring III	
19	Radial keratotomy and transverse astigmatic keratotomy	319
	Geoffrey J Crawford	
20	Alternative surgical techniques in the correction of high	
	myopia	331
	Ronald M Stasiuk, Cathy A McCarty, Hugh R Taylor and Charles N J McGhee	
21	Early phototherapeutic keratectomy studies in the	
	United Kingdom	339
	David S Gartry	
22	Phototherapeutic keratectomy: clinical studies	357
	Christine R Ellerton and Charles N J McGhee	
23	Complications of excimer laser photorefractive surgery	379
25	Charles N J McGhee and Christine R Ellerton	317
24	Regression and retreatment	403
	Grant R Snibson	
25	Essential pharmacology for photorefractive surgery	421
	Charles N J McGhee and Peter Koay	
26	Future developments of laser refractive surgery	439
	Stephen L Trokel	
	Index	445