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Autore	Alpins Noel
Titolo	Practical astigmatism : planning and analysis / / Noel Alpins
Pubbl/distr/stampa	Thorofare, New Jersey : , : SLACK Incorporated, , 2018 ©2018
ISBN	1-63091-527-0 1-63091-528-9
Descrizione fisica	1 online resource (235 pages) : color illustrations
Disciplina	617.755
Soggetti	Astigmatism - Surgery
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Sommario/riassunto	"The surgical correction of astigmatism is the last frontier to optimizing visual outcomes for patients. Practical Astigmatism: Planning and Analysis is a comprehensive guide to correcting astigmatism from pre-operative planning to post-operative analysis. This provides readers with unique insight to what actually happened surgically: did the astigmatism over or under correct? Was it on-axis or off-axis? With this book, ophthalmologists will be able to analyze previous procedures with the appropriate nomograms and more often achieve targeted outcomes. Dr. Noel Alpins has developed the Alpins Method of astigmatism to provide accurate planning and analysis of astigmatism procedures. His method focuses on analyzing refractive and corneal astigmatism parameters and using the results in future surgery to improve visual outcomes. The importance of the ocular residual astigmatism (ORA) is detailed when planning astigmatism surgery. Practical Astigmatism features vector planning for refractive laser surgery as well as planning and analysis applied to cataract and limbal relaxing incisions, in addition to demonstrating graphical analysis of astigmatism using high quality vector and fan diagrams, as used in scientific journals. In addition, hemidivisional analysis of the irregular cornea, corneal coupling in incisional and excimer laser surgery for mixed astigmatism and toric IOL planning with total corneal power

using corneal topographic astigmatism (CorT total) are addressed as well.Some Questions Answered Inside:What is the difference between regular and irregular astigmatism?How do I diagnose each, and how does this affect my surgical technique? Can I incorporate corneal astigmatism when performing excimer laser surgery? Why are my LRIs undercorrecting the astigmatism? Is it safe to perform excimer laser on keratoconous patients? Which corneal astigmatism measure do I choose and what do I do following a refractive surprise? Practical Astigmatism: Planning and Analysis will help ophthalmologists, optometrists, and technicians alike address each patient's unique circumstances and act as your in-depth guide to correcting astigmatism. Testimonials... "For more than three decades I have been listening to, arguing with, and admiring the work of Dr. Noel Alpins in the field of astigmatism. Despite his remote location on the small island of Australia, his knowledge of astigmatism is at the peak of Mt. Everest. There are few others who have devoted their careers to understanding and managing astigmatism for which the world of ophthalmology is truly grateful." - Robert H. Osher, MD "Noel is an original thinker who took on and conquered the complexities of astigmatism analysis, publishing the seminal papers on the way. His work has formed the cornerstone from which our current understanding and management of astigmatism has been built. He is someone from whom we have all learnt a great deal and this book is a testament to this." - Dan Z Reinstein, MD MA(Cantab) FRCSC DABO FRCOphth FEBO"--Provided by publisher.

2. Record Nr. UNINA9910830993203321

Autore	Laiho Jaana
Titolo	Radio Network Planning and Optimisation for UMTS [[electronic resource]]
Pubbl/distr/stampa	Hoboken, : Wiley, 2006
ISBN	1-280-44890-3 9786610448906 0-470-03140-9 0-470-03139-5
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (663 p.)
Altri autori (Persone)	WackerAchim NovosadTomas
Disciplina	621.382 621.384
Soggetti	Code division multiple access Global system for mobile communications Radio Radio - Transmitters and transmission Transmitters and transmission Global system for mobile communications - Transmitters and transmission Telecommunications Electrical & Computer Engineering Engineering & Applied Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Radio Network Planning and Optimisation for UMTS; Contents; Preface; Acknowledgements; Abbreviations; 1 Introduction; 1.1 A Brief Look at Cellular History; 1.2 Evolution of Radio Network Planning; 1.3 Introduction to Radio Network Planning and Optimisation for UMTS; 1.4 Future Trends; 1.4.1 Towards a Service-driven Network Management; 1.4.2 Wireless Local Area Networks (WLANs); 1.4.3 Next-generation Mobile Communication; References; 2 Introduction to WCDMA for UMTS; 2.1 Mathematical Background of Spread Spectrum CDMA

Systems; 2.1.1 Multiple Access; 2.1.2 Spread Spectrum Modulation
2.1.3 Tolerance of Narrowband Interference2.2 Direct Sequence Spread Spectrum System; 2.2.1 Modulation Example; 2.2.2 Tolerance of Wideband Interference; 2.2.3 Operation in Multi-path Environment; 2.3 CDMA in Cellular Radio Networks; 2.3.1 Universal Frequency Reuse; 2.3.2 Soft Handover; 2.3.3 Power Control; 2.4 WCDMA Logical, Transport and Physical Channels; 2.4.1 High-level UMTS Architecture Model; 2.4.2 Radio Interface Protocol Architecture and Logical Channels; 2.4.3 Transport Channels; 2.4.4 Physical Channels and Mapping of Transport Channels (FDD)
2.4.5 High-speed Downlink Packet Access (HSDPA)2.4.6 Timing and Synchronisation in UTRAN (FDD); 2.4.7 Spreading, Scrambling and Channelisation Concepts; 2.5 WCDMA Radio Link Performance Indicators; 2.5.1 Definitions; 2.5.2 Classification according to Multi-path Channel Conditions and Services; 2.5.3 Link-level Simulation Principles; 2.5.4 Physical-layer Measurements Supporting the Measurement of Link-level Performance in a Live Network; References; 3 WCDMA Radio Network Planning; 3.1 Dimensioning; 3.1.1 WCDMA-specific Issues in Radio Link Budgets; 3.1.2 Receiver Sensitivity Estimation
3.1.3 Shadowing Margin and Soft Handover Gain Estimation3.1.4 Cell Range and Cell Coverage Area Estimation; 3.1.5 Capacity and Coverage Analysis in the Initial Planning Phase; 3.1.6 Dimensioning of WCDMA Networks with HSDPA; 3.1.7 RNC Dimensioning; 3.2 Detailed Planning; 3.2.1 General Requirements for a Radio Network Planning Tool; 3.2.2 Initialisation: Defining the Radio Network Layout; 3.2.3 Detailed Uplink and Downlink Iterations; 3.2.4 Adjacent Channel Interference Calculations; 3.2.5 Post-processing: Network Coverage Prediction and Common Channel Analysis
3.3 Verification of Dimensioning with Static Simulations3.3.1 Macro-cellular Network Layout; 3.3.2 Introduction to the Simulation Parameters; 3.4 Verification of Static Simulator with Dynamic Simulations; 3.4.1 Introduction to the Dynamic Simulator; 3.4.2 Comparison of the Results; 3.5 Optimisation of the Radio Network Plan; 3.5.1 Ideal Case; 3.5.2 Shinjuku Case; 3.6 Interference in WCDMA Multi-operator Environment; 3.6.1 Sources of Adjacent Channel Interference; 3.6.2 Minimum Coupling Loss; 3.6.3 Dead Zones; 3.6.4 ACI Simulation Cases; 3.6.5 Guidelines for Radio Network Planning to Avoid ACI
3.7 Cell Deployment Strategies

Sommario/riassunto

Radio Network Planning and Optimisation for UMTS, Second Edition, is a comprehensive and fully updated introduction to WCDMA radio access technology used in UMTS, featuring new content on key developments. Written by leading experts at Nokia, the first edition quickly established itself as a best-selling and highly respected book on how to dimension, plan and optimise UMTS networks. This valuable text examines current and future radio network management issues and their impact on network performance as well as the relevant capacity and coverage enhancement methods. In addition to cove