1.	Record Nr.	UNINA9910830765803321
	Autore	Hanzo Lajos <1952->
	Titolo	3G, HSPA and FDD versus TDD networking : smart antennas and adaptive modulation / / L. Hanzo, J.S. Blogh, S. Ni
	Pubbl/distr/stampa	Chichester, England ; , : John Wiley & Sons/IEEE Press, , c2008 [Piscataqay, New Jersey] : , : IEEE Xplore, , [2008]
	ISBN	1-282-34323-8 9786612343230 0-470-75429-X 0-470-75428-1
	Edizione	[2nd ed.]
	Descrizione fisica	1 online resource (598 p.)
	Altri autori (Persone)	NiSong
	Disciplina	621.382/1 621.384
	Soggetti	Wireless communication systems Cell phone systems
	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 (p. [521]-546) and indexes.
	Nota di contenuto	About the Authors -- Other Wiley and IEEE Press Books on Related Topics -- Preface -- Acknowledgments -- 1 Third-Generation CDMA Systems -- 1.1 Introduction -- 1.2 Basic CDMA System -- 1.3 Third-Generation Systems -- 1.4 Summary and Conclusions -- 2 High Speed Down-Link and Up-Link Packet Access -- 2.1 Introduction -- 2.2 High Speed Downlink Packet Access -- 2.3 High-Speed Uplink Packet Access -- 2.4 Implementation Issues -- 2.5 Glossary -- 3 HSDPA-Style Burst-by-Burst Adaptive Wireless Transceivers -- 3.1 Motivation -- 3.2 Narrowband Burst-by-Burst Adaptive Modulation -- 3.3 Wideband Burst-by-Burst Adaptive Modulation -- 3.4 Wideband BbB-AQAM Video Transceivers -- 3.5 BbB-AQAM Performance -- 3.6 Wideband BbB-AQAM Video Performance -- 3.7 BbB Adaptive Joint-detection CDMA Video Transceiver -- 3.8 Subband-Adaptive OFDM Video Transceivers -- 3.9 Summary and Conclusions -- 4 Intelligent Antenna Arrays and Beamforming -- 4.1 Introduction -- 4.2 Beamforming -- 4.3 Adaptive Beamforming -- 4.4 Summary and Conclusions -- 5 Adaptive Arrays in Cellular Networks -- 5.1 Introduction -- 5.2 Modelling Adaptive

Antenna Arrays -- 5.3 Channel Allocation Techniques -- 5.4 Employing Adaptive Antenna Arrays -- 5.5 Multipath Propagation Environments -- 5.6 Network Performance Results -- 5.7 Summary and Conclusions -- 6 HSDPA-Style FDD Networking, Adaptive Arrays and AQAM -- 6.1 Introduction -- 6.2 Direct Sequence Code Division Multiple Access -- 6.3 UMTS Terrestrial Radio Access -- 6.4 Simulation Results -- 6.5 Summary and Conclusions -- 7 HSDPA-Style FDD/CDMA Performance Using LS Spreading Codes -- 7.1 Effects of LS Spreading Codes on the Performance of CDMA Systems -- 7.2 Effects of Cell Size on the UTRA Performance -- 7.3 Effects of SINR Threshold on the UTRA Performance -- 7.4 Network-Layer Performance of Multi-Carrier CDMA -- 8 HSDPA-Style TDD/CDMA Network Performance -- 8.1 Introduction -- 8.2 UMTS FDD Versus TDD Terrestrial Radio Access -- 8.3 UTRA TDD/CDMA System -- 8.4 Interference Scenario In TDD CDMA. 8.5 Simulation Results -- 8.6 LS Code Aided Network Performance of UTRA-like TDD/CDMA -- 9 The Effects of Power Control and Hard Handovers on the UTRA TDD/CDMA System -- 9.1 A Historical Perspective on Handovers -- 9.2 Hard Handover in UTRA-like TDD/CDMA Systems -- 9.3 Power Control in UTRA-like TDD/CDMA Systems -- 9.4 Summary and Conclusion -- 10 Genetically Enhanced UTRA/TDD Network Performance -- 10.1 Introduction -- 10.2 The Genetically Enhanced UTRA-like TDD/CDMA System -- 10.3 Simulation Results -- 10.4 Summary and Conclusion -- 11 Conclusions and Further Research -- 11.1 Summary of FDD Networking -- 11.2 Summary of FDD Versus TDD Networking -- 11.3 Further Research -- Glossary -- Bibliography -- Subject Index.<U+0083> -- Author Index.

Sommario/riassunto	3G, HSPA and FDD versus TDD Networking, Second Edition is the only book that contrasts the network capacity gains that may be achieved with the advent of adaptive antenna arrays and HSDPA-style adaptive modulation techniques in the context of FDD and TDD CDMA cellular networks. In the five years since the first edition of this book was published the wireless landscape has evolved further. The new book addresses the recent developments in the field of HSDPA-style wireless networking, focusing particularly on the issues and challenges of FDD versus TDD networking. These solutions are par