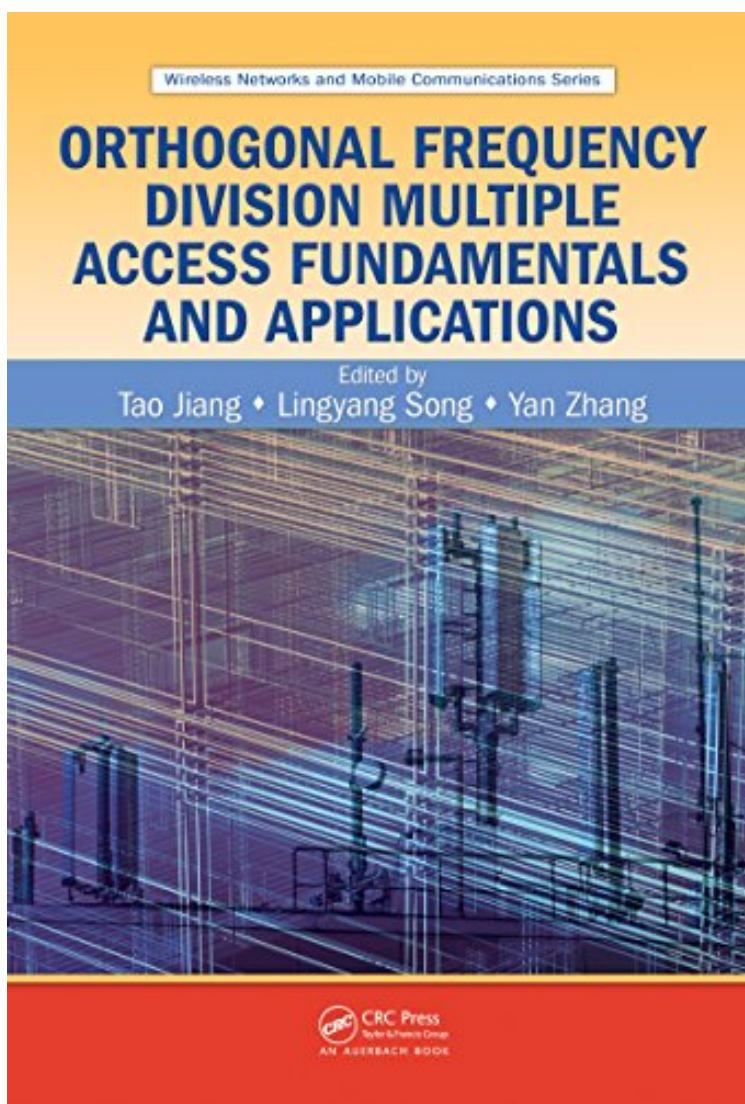


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Supported by the expert-level advice of pioneering researchers, *Orthogonal Frequency Division Multiple Access Fundamentals and Applications* provides a comprehensive and accessible introduction to the foundations and applications of one of the most promising access technologies for current and future wireless networks. It includes authoritative coverage of the history, fundamental principles, key techniques, and critical design issues of OFDM systems. Covering various techniques of effective resource management for OFDM/OFDMA-based wireless communication systems, this cutting-edge reference: Addresses open problems and supplies possible solutions Provides a concise overview of key techniques for adaptive modulation Investigates radio channel modeling in OFDMA-based wireless communication systems Details detection strategies of frequency-domain equalization for broadband communications Introduces a novel combination of OFDM and the orbital angular momentum of the electromagnetic field to improve performance Contains extensive treatment of adaptive MIMO beamforming suitable for multiuser access This valuable resource supplies readers with a macro-level understanding of OFDMA and its key issues, while providing a systematic manual for those whose work is directly related to practical OFDMA and other multiuser communication systems projects.

About the Author Tao Jiang is a professor in the Department of Electronics and Information Engineering at Huazhong University of Science and Technology, Wuhan, Peoplesquos Republic of China. He received his BS and MS degrees in applied geophysics from China University of Geosciences, Wuhan, Peoplesquos Republic of China in 1997 and 2000, respectively. In June 2004, he received his PhD degree in information and communication engineering from Huazhong University of Science and Technology, Wuhan, Peoplesquos Republic of China. He was an academic visiting scholar in Brunel University, UK, from August 2004 to 2005. He worked in the United States as a postdoctoral researcher in some universities, including University of Michigan from October 2006 to December 2007. His research focuses on nano-networks, areas of wireless communications based on OFDM and MIMO, especially cognitive radio networks, cooperative communications, wireless sensor networks, free space optical communication, and corresponding digital signal processing. He has authored or co-authored over 60 technical papers in journals, conference proceedings, and book chapters in these areas. He served or is serving as a symposium technical program committee member of many major IEEE conferences, including INFOCOM, VTC, ICC, GLOBECOM, WCNC, and so on. He has been invited to serve as TPC Symposium Chair for IWCMC 2010. He served or is serving as an associate editor of some technical journals in communications, including Wileyrsquos Wireless Communications and Mobile Computing (WCMC) Journal and Wileyrsquos International Journal of Communication Systems. He is a member of IEEE, IEEE ComSoc, and IEEE Broadcasting. Lingyang Song received a BS degree in communication engineering from Jilin University, China, in 2002 and a PhD in differential spacendash;time codes and MIMO from the University of York, UK, in 2007, where he received the K. M. Stott Prize for excellent research. From January to September 2003 he worked as a software engineer in Hwasun Tomorrow Technology, Beijing. He worked as a postdoctoral research fellow at the University of Oslo, Norway, until rejoining Philips Research UK in March 2008. Now, he is with the School of Electronics Engineering and Computer Science, Peking University, China. He is co-inventor of a number of patents and author or co-author of over 70 journal and conference papers. He is currently on the Editorial Board of International Journal of Communications, Network and System Sciences, Journal of Network and Computer Applications, and International Journal of Smart Homes, and a guest editor of Elsevier Computer Communications and EURASIP Journal on Wireless Communications and Networking. He serves as a member of the Technical Program Committee and is co-chair for several international conferences and workshops. He is a member of IEEE and IEEE ComSoc. Yan Zhang received a BS degree in communication engineering from the Nanjing University of Post and Telecommunications, China; an MS degree in electrical engineering from the Beijing University of Aeronautics and Astronautics, China; and a PhD degree from the School of Electrical Electronics Engineering, Nanyang Technological University, Singapore. He is an associate editor or on the editorial board of Wileyrsquos International Journal of Communication Systems (IJCS); International Journal of Communication Networks and Distributed Systems (IJCNDS); Springer Internationalrsquos Journal Ambient Intelligence and Humanized Computing (JAIHC), International Journal of Adaptive, Resilient and Autonomic Systems (IJARAS); Wileyrsquos Wireless Communications and Mobile Computing (WCMC), Security and Communication Networks, International Journal of Network Security, International Journal of Ubiquitous Computing, Transactions on Internet and Information Systems (TIIS), International Journal of Autonomous and Adaptive Communications Systems (IJAACS), International Journal of Ultra Wideband Communications and Systems (IJUWBCS), and International Journal of Smart Home (IJSH). He is currently the book series editor for the book series Wireless Networks and Mobile Communications (Auerbach Publications, CRC Press, Taylor and Francis Group). He serves as guest co-editor for Wileyrsquos Wireless Communications and Mobile Computing (WCMC) special issue for best papers in the conference IWCMC 2009; ACM/Springersquos Multimedia Systems Journal special issue on ldquo;Wireless Multimedia Transmission Technology and Applicationrdquo;; Springersquos Journal of Wireless Personal Communications special issue on ldquo;Cognitive Radio Networks and Communicationsrdquo;; Indersciencersquos International Journal of Autonomous and Adaptive Communications Systems (IJAACS) special issue on ldquo;Ubiquitous/Pervasive Services

and Applications; EURASIP's Journal on Wireless Communications and Networking (JWCN) special issue on "Broadband Wireless Access"; IEEE's Intelligent Systems special issue on "Context-Aware Middleware and Intelligent Agents for Smart Environments"; and Wiley's Security and Communication Networks special issue on "Secure Multimedia Communication"; guest co-editor for Springer's Wireless Personal Communications special issue on selected papers from ISWCS 2007; guest co-editor for Elsevier Computer Communications special issue on "Adaptive Multicarrier Communications and Networks"; guest co-editor for Inderscience's International Journal of Autonomous and Adaptive Communications Systems (IJAAACS) special issue on "Cognitive Radio Systems"; guest co-editor for The Journal of Universal Computer Science (JUCS) special issue on "Multimedia Security in Communication"; guest co-editor for Springer's Journal of Cluster Computing special issue on "Algorithm and Distributed Computing in Wireless Sensor Networks"; guest co-editor for EURASIP's Journal on Wireless Communications and Networking (JWCN) special issue on "OFDMA Architectures, Protocols, and Applications"; and guest co-editor for Springer's Journal of Wireless Personal Communications special issue on "Security and Multimodality in Pervasive Environments." He is co-editor for several books: Resource, Mobility and Security Management in Wireless Networks and Mobile Communications; Wireless Mesh Networking: Architectures, Protocols and Standards; Millimeter-Wave Technology in Wireless PAN, LAN and MAN; Distributed Antenna Systems: Open Architecture for Future Wireless Communications; Security in Wireless Mesh Networks; Mobile WiMAX: Toward Broadband Wireless Metropolitan Area Networks; Wireless Quality-of-Service: Techniques, Standards and Applications; Broadband Mobile Multimedia: Techniques and Applications; Internet of Things: From RFID to the Next-Generation Pervasive Networked Systems; Unlicensed Mobile Access Technology: Protocols, Architectures, Security, Standards and Applications; Cooperative Wireless Communications; WiMAX Network Planning and Optimization; RFID Security: Techniques, Protocols and System-On-Chip Design; Autonomic Computing and Networking ; Security in RFID and Sensor Networks; Handbook of Research on Wireless Security; Handbook of Research on Secure Multimedia Distribution; RFID and Sensor Networks; Cognitive Radio Networks; Wireless Technologies for Intelligent Transportation Systems; Vehicular Networks: Techniques, Standards and Applications; Orthogonal Frequency Division Multiple Access (OFDMA); Game Theory for Wireless Communications and Networking ; and Delay Tolerant Networks: Protocols and Applications. He serves as Program Co-Chair for IWCMC 2010, Program Co-Chair for WICON 2010, Program Vice Chair for CloudCom 2009, Publicity Co-Chair for IEEE MASS 2009, Publicity Co-Chair for IEEE NSS 2009, Publication Chair for PSATS 2009, Symposium Co-Chair for ChinaCom 2009, Program Co-Chair for BROADNETS 2009, Program Co-Chair for IWCMC 2009, Workshop Co-Chair for ADHOCNETS 2009, General Co-Chair for COGCOM 2009, Program Co-Chair for UC-Sec 2009, Journal Liaison Chair for IEEE BWA 2009, Track Co-Chair for ITNG 2009, Publicity Co-Chair for SMPE 2009, Publicity Co-Chair for COMSWARE 2009, Publicity Co-Chair for ISA 2009, General Co-Chair for WAMSNet 2008, Publicity Co-Chair for TrustCom 2008, General Co-Chair for COGCOM 2008, Workshop Co-Chair for IEEE APSCC 2008, General Co-Chair for WITS-08, Program Co-Chair for PCAC 2008, General Co-Chair for CONET 2008, Workshop Chair for SecTech 2008, Workshop Chair for SEA 2008, Workshop Co-Organizer for MUSIC'08, Workshop Co-Organizer for 4G-WiMAX 2008, Publicity Co-Chair for SMPE-08, International Journals Coordinating Co-Chair for FGNC-08, Publicity Co-Chair for ICCAS 2008, Workshop Chair for ISA 2008, Symposium Co-Chair for ChinaCom 2008, Industrial Co-Chair for MobiHoc 2008, Program Co-Chair for UIC-08, General Co-Chair for CoNET 2007, General Co-Chair for WAMSNet 2007, Workshop Co-Chair FGNC2007, Program Vice Co-Chair for IEEE ISM 2007, Publicity Co-Chair for UIC-07, Publication Chair for IEEE ISWCS 2007, Program Co-Chair for IEEE PCAC'07, Special Track Co-Chair for "Mobility and Resource Management in Wireless/Mobile Networks"; in ITNG 2007, Special Session Co-organizer for "Wireless Mesh Networks"; in PDCS 2006, a member of the Technical Program Committee for numerous international conferences, including ICC, GLOBECOM, WCNC, PIMRC, VTC, CCNC, AINA, ISWCS, etc. He received the Best Paper Award in the IEEE 21st International Conference on Advanced Information Networking and Applications (AINA-07). From August 2006, he has been working with Simula Research Laboratory, Norway. His research interests include resource, mobility, spectrum, data, energy, and security management in wireless networks and mobile computing. He is a member of IEEE and IEEE ComSoc.