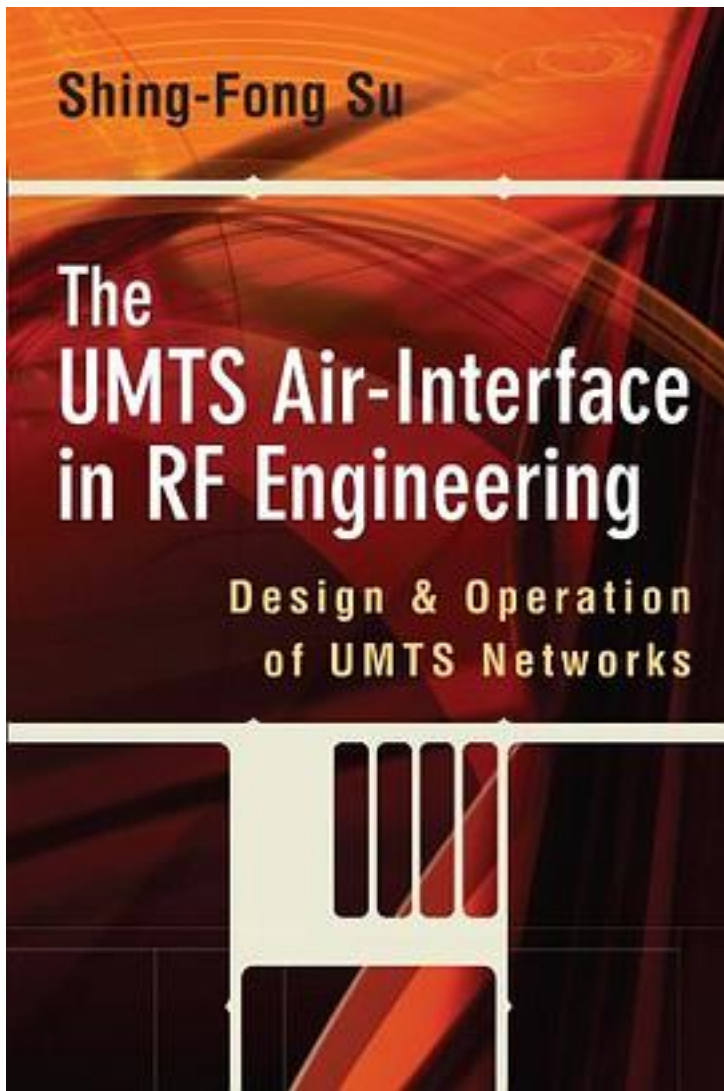


The UMTS Air-interface in RF Engineering



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出版者:McGraw-Hill

出版时间:2007-4

装帧:HRD

isbn:9780071488662

Everything Engineers Need to Design, Build, and Operate 3G Wireless Networks for Global Voice and Data Communications The UMTS Air-Interface in RF Engineering shows you how to design, build, and operate the 3G wireless networks that carry most of today's global voice and data communications. The book explains the RF engineering aspects of UMTS, key elements of the 3GPP specifications, and practical operation of UMTS networks. Written by an internationally renowned expert on wireless systems, this essential engineering tool takes you through UMTS basics and standards!radio resource and link controls!physical layer!cell reselection!handover!power control!HSDPA!WCDMA RF network planning and optimization!repeaters and tower top amplifiers!inter-system interference !and more. Filled with 150 detailed illustrations, The UMTS Air-Interface in RF Engineering features: A complete explanation of UMTS in an RF engineering context Expert information on key elements of the 3GPP specifications Numerous applications of theoretical concepts to the day-to-day operation of UMTS networks Step-by-step guidance on UMTS physical layer procedures Inside This Cutting-Edge UMTS Engineering Guide _ / Introduction to UMTS / UMTS Fundamentals / UMTS Standards _ Radio Resource Control / Radio Link Control / Medium Access Control / Physical Layer / Cell Reselection / Handover / Power Control / HSDPA / WCDMA RF Network Planning / WCDMA RF Network Optimization / Repeaters and Tower Top Amplifiers / Inter-System Interferences / WCDMA and CDMA 2000

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