



# The UMTS Air-Interface in RF Engineering: Design and Operation of UMTS Networks

*Shing-Fong Su*

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*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:

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