DESCRIPTION

Combines in one volume the basics of evolving radio access technologies and their implementation in mobile phones

• Reviews the evolution of radio access technologies (RAT) used in mobile phones and then focuses on the technologies needed to implement the LTE (Long term evolution) capability

• Coverage includes the architectural aspects of the RF and digital baseband parts before dealing in more detail with some of the hardware implementation

• Unique coverage of design parameters and operation details for LTE-A phone transceiver

• Discusses design of multi-RAT Mobile with the consideration of cost and form factors

• Provides in one book a review of the evolution of radio access technologies and a good overview of LTE and its implementation in a handset

• Unveils the concepts and research updates of 5G technologies and the internal hardware and software of a 5G phone
ABOUT THE AUTHOR

Dr. Sajal Kumar Das, ERICSSON, MODEM R&D, India. Over the last 16 years, Das has extensively worked on 2G, 3G and 4G mobile receiver algorithms and system development. He has implemented several innovative architectures and algorithms related to mobile phones technology. Before joining ERICSSON, he worked with Nokia, Texas Instruments, STMicroelectronics, Lucent Technologies, and Bharat Electronics. Das is the author of two technical books and more than 25 technical papers. Over 20 US patents were granted for his outstanding performance in the mobile communication field. He is also a member of the 3GPP mobile standardization group and IEEE.

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