



# Simulation and Software Radio for Mobile Communications (Artech House Universal Personal Communications)

By Hiroshi Harada

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## Simulation and Software Radio for Mobile Communications (Artech House Universal Personal Communications) By Hiroshi Harada

This cutting-edge, first-of-its-kind resource gives you a comprehensive understanding of the simulation and evaluation methods used for today's mobile communication systems. Written by two highly regarded experts in the field, the book focuses on the performance of both the physical and protocol layer transmission scheme. It defines and presents several invaluable simulation tools written in Matlab® code, along with clear examples that explain their use. You get in-depth discussions on digital modulation techniques, including Bpsk, Qpsk, Oqpsk, Msk, Gmsk, and Qam by using simulation programs. Moreover, the book also explains the history and configuration of both Ofdm and Cdma transmission scheme, discusses multiple access protocols, cellular telecommunication systems, and introduces cutting-edge software radio communication systems. This practical reference is packed with over 240 equations and 160 illustrations.

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