

Wireless Communications

Wireless Communications

PRINCIPLES AND PRACTICE

Second Edition

THEODORE S. RAPPAPORT

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About the Author

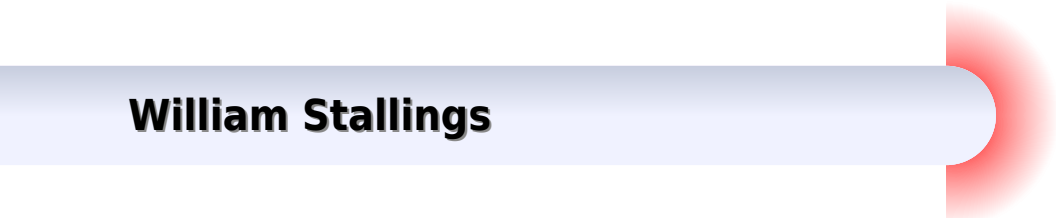
THEODORE S. RAPPAPORT holds the William and Bertha Moore Chair in Electrical Engineering at the University of Texas, Austin and is the former senior faculty member of the Communications Engineering and Emerging Technologies Center, in 1992. He founded the Mobile & Portable Radio Research Group at Virginia Tech, one of the first university research and educational programs focused on wireless communications. Rappaport has developed dozens of commercial products over the last twenty years and, furthermore, has also edited several fundamental research and teaching materials used in university short courses and in university classrooms around the globe. His current research focuses on new methods for protecting and distributing wireless broadband and portable Internet access by managing frequency reuse, and on low bandwidth, modeling, and practical use of 3-D ultra-wideband propagation techniques for future wireless networks.

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Wireless Guide To Wireless Communications 2nd Edition

William Stallings



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Course Technology,2001-12 **Short-range Wireless Communication** Alan Bensky,2019-08-01 Short range Wireless Communication Third Edition describes radio theory and applications for wireless communication with ranges of centimeters to hundreds of meters Topics covered include radio wave propagation the theory of antennas and transmission lines architectures of transmitters and radio system design guidelines as a function of basic communication parameters such as sensitivity noise and bandwidth Topics new to this edition include MIMO metamaterials inductance coupling for loop

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Wireless Connectivity Petar Popovski, 2020-02-25 Wireless Connectivity An Intuitive and Fundamental Guide Wireless connectivity has become an indispensable part a commodity associated with the way we work and play The latest developments the 5G next generation Wi Fi and Internet of Things connectivity are the key enablers for widespread digitalization of practically all industries and public sector segments This immense development within the last three decades have been accompanied by a large number of ideas articles patents and even myths This book introduces the most important ideas and concepts in wireless connectivity and discusses how these are interconnected whilst the mathematical content is kept minimal The book does not follow the established linear structure in which one starts from the propagation and channels and then climbs up the protocol layers The structure is rather nonlinear in an attempt to follow the intuition used when one creates a new technology to solve a certain problem The target audience is Students in electronics communication and networking Wireless engineers that are specialized in one area but want to know how the whole system works without going through all the details and math Computer scientists that want to understand the fundamentals of wireless connectivity the requirements and most importantly the limitations Engineers in energy systems logistics transport and other vertical sectors that are increasingly reliant on wireless technology

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