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Sommario/riassunto

This book discusses propagation and channel modeling for LTE Advanced and emerging wireless technologies. LTE-Advanced and Next Generation Wireless Networks: Channel Modeling and Propagation describes recent advances in propagation and channel modeling necessary for designing, simulating and validating next generation wireless systems. The book is divided into three parts. Part I addresses the fundamentals (e.g. technologies, channel modeling principles etc.) Part II addresses propagation and modeling discussing topics such as indoor propagation, outdoor propagation, etc. Finally, Part III explores system performance and applications, including MIMO Over-the-air testing. Key Features: . Introduces LTE-Advanced and emerging wireless networks and concepts, as well as the major new techniques which impact the channel/propagation. Discusses models for path loss predictions, pico/femto and relay channels, wideband channel models, channels for high mobility etc.. Presents advances in channel measurements, and compares LTE field trials and measurement results with theoretical models. Covers application and performance analysis. Written by leading experts in academia and industry who have experience in propagation and channel modeling. Includes an accompanying website containing additional material, links to references and advertisements for the book (www.wiley.com/go/delaroche_next) This book is an excellent resource for academics and researchers working in telecommunications, and for wireless network designers, scientific (R&D) staff, and network engineers of mobile operators. Engineering students with wireless technology featuring in their work, product and solution architects, network planners, consultants on wireless communications consultants, femtocells hardware manufacturers will also find the book of interest.
