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Titolo	5G Wireless Systems : Simulation and Evaluation Techniques // by Yang Yang, Jing Xu, Guang Shi, Cheng-Xiang Wang
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Descrizione fisica	1 online resource (XXIII, 434 p. 196 illus., 149 illus. in color.)
Collana	Wireless Networks, , 2366-1186
Disciplina	621.382
Soggetti	Electrical engineering Computer networks Operating systems (Computers) Communications Engineering, Networks Computer Communication Networks Operating Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Candidate Technologies and Evaluation Challenges for 5G -- Evolution of Testing Technology -- Channel Measurement and Modeling -- Software Simulation -- Evaluation Test of Software and Hardware Co-Simulation -- 5G Hardware Test Evaluation Platform -- Field Trial Network.
Sommario/riassunto	This book focuses on key simulation and evaluation technologies for 5G systems. Based on the most recent research results from academia and industry, it describes the evaluation methodologies in depth for network and physical layer technologies. The evaluation methods are discussed in depth. It also covers the analysis of the 5G candidate technologies and the testing challenges, the evolution of the testing technologies, fading channel measurement and modeling, software simulations, software hardware cosimulation, field testing and other novel evaluation methods. The fifth-generation (5G) mobile communications system targets highly improved network performances in terms of the network capacity and the number of connections. Testing and evaluation technologies is widely recognized and plays

important roles in the wireless technology developments, along with the research on basic theory and key technologies. The investigation and developments on the multi-level and comprehensive evaluations for 5G new technologies, provides important performance references for the 5G technology filtering and future standardizations. Students focused on telecommunications, electronic engineering, computer science or other related disciplines will find this book useful as a secondary text. Researchers and professionals working within these related fields will also find this book useful as a reference.

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