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Wireless Communications



Andreas F. Molisch

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Andreas F. Molisch



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significant new sections on multi user MIMO 802 11n and information theory Companion website featuring supplementary material on DECT solutions manual and presentation slides for instructors appendices list of abbreviations and other useful resources **Solutions Manual Wireless Communications** Zhigang Rong, Theodore S Rappaport, 2009-11-01

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Propagation Engineering in Wireless Communications Abdollah Ghasemi, Ali Abedi, Farshid Ghasemi, 2016-06-17 This book covers the basic principles for understanding radio wave propagation for common frequency bands used in radio communications This includes achievements and developments in propagation models for wireless communication This book is intended to bridge the gap between the theoretical calculations and approaches to the applied procedures needed for radio links design in a proper manner The authors emphasize propagation engineering by giving fundamental information and explain the use of basic principles together with technical achievements This new edition includes additional information on radio wave propagation in guided media and technical issues for fiber optics cable networks with several examples and problems This book also includes a solution manual with 90 solved examples distributed throughout the chapters and 158 problems including practical values and assumptions

Wireless Communications Systems Randy L. Haupt, 2019-12-17 A comprehensive introduction to the fundamentals of design and applications of wireless communications Wireless Communications Systems starts by explaining the fundamentals needed to understand design and deploy wireless communications systems The author a noted expert on the topic explores the basic concepts of signals modulation antennas and propagation with a MATLAB emphasis The book emphasizes practical applications and concepts needed by wireless engineers The author introduces applications of wireless communications and includes information on satellite communications radio frequency identification and offers an overview with practical insights into the topic of multiple input multiple output MIMO The book also explains the security and health effects of wireless systems concerns on users and designers Designed as a practical resource the text contains a range of examples and pictures that illustrate many different aspects of wireless technology The book relies on MATLAB for most of the computations and graphics This important text Reviews the basic information needed to understand and design wireless communications systems Covers topics such as MIMO systems adaptive antennas direction finding wireless security internet of things IoT radio frequency identification RFID and software defined radio SDR Provides examples with a MATLAB emphasis to aid comprehension Includes an online solutions manual and video lectures on selected topics Written for students of engineering and physics and practicing engineers and scientists Wireless Communications Systems covers the fundamentals of wireless engineering in a clear and concise manner and contains many illustrative examples

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