



### **Introduction to Wireless and Mobile Systems**

By Agrawal / Zeng



#### Introduction to Wireless and Mobile Systems By Agrawal / Zeng

Key features experiments have been added to the end of each chapter for exploring the use of hardware and/or simulators. Challenging open ended experimental questions have been added into many chapters. Expanded coverage of sensor networks and associated issues. New discussions on mobile ip, multicasting in ad hoc networks, wimax, wireless mesh networks, and cognitive radio, femtocells, and various attacks in wireless networks. Expanded coverage of ieee 802.11 protocols and its variants. Provides a clear understanding of how the mobility of cell phones is supported. Includes only the necessary mathematical formulations so students can appreciate their usefulness in numerous wireless and mobile system applications without being overwhelmed by mathematical detail. Offers detailed discussions on how ad hoc and sensor networks are finding increasing use in military and commercial applications. Discusses how the introduction of the bluetooth standard has revolutionized the field with easy replacement of connectors. Covers recent advances in the last chapter with an emphasis on the research work being carried out in wireless and mobile computing areas. Encourages students to use one of the simulators (ns-2, opnet, or other stable simulators) to get a feel for the overall system complexity. Offers a list of class-tested laboratory experiments that could be used for projects in various chapters. About the book: introduction to wireless and mobile systems this text explains the general principles of how wireless systems work, how mobility is supported, what the underlying infrastructure is and what interactions are needed among different functional components.

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