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Nota di contenuto	Contents; About the Series Editor; Preface; 1 Introduction; 2 WSN Applications; 3 Factors Influencing WSN Design; 4 Physical Layer; 5 Medium Access Control; 6 Error Control; 7 Network Layer; 8 Transport Layer; 9 Application Layer; 10 Cross-layer Solutions; 11 Time Synchronization; 12 Localization; 13 Topology Management; 14 Wireless Sensor and Actor Networks; 15 Wireless Multimedia Sensor Networks; 16 Wireless Underwater Sensor Networks; 17 Wireless Underground Sensor Networks; 18 Grand Challenges; Index
Sommario/riassunto	This book presents an in-depth study on the recent advances in Wireless Sensor Networks (WSNs). The authors describe the existing WSN applications and discuss the research efforts being undertaken in this field. Theoretical analysis and factors influencing protocol design are also highlighted. The authors explore state-of-the-art protocols for WSN protocol stack in transport, routing, data link, and physical layers. Moreover, the synchronization and localization problems in WSNs are investigated along with existing solutions. Furthermore, cross-layer solutions are described. Finally, developin