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Book Description

This first-of-its-kind resource offers you an in-depth understanding of wireless sensor networks from a systems perspective. The book describes and categorizes the technological trends, leading applications, state-of-the-art platform developments, future trends, and challenges of sensor networks. You find critical coverage of network protocols and mechanisms for node localization, time synchronization, media access control, topology creation and management, routing, transport, storage, security and fault tolerance, energy conservation and harvesting, and node deployment in large-scale sensor networks.

What's more, this practical reference addresses middleware issues for sensor network applications and focuses on important application domains, showing you how specific applications influence the architectural design of networked systems. Contributions from leading international researchers and nearly 70 illustrations support key topics throughout the book.

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About the Author

Nirupama Bulusu is an Assistant Professor of Computer Science at the Maseeh College of Engineering and Computer Science at Portland State University. An author of numerous highly cited publications on sensor networks, she received her Ph.D in Computer Science in 2002 from the University of California at Los Angeles.

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