



Ad Hoc and Sensor Networks: Theory and Applications

Carlos de Moraes Cordeiro, Dharma Prakash Agrawal

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This book provides a comprehensive yet easy coverage of ad hoc and sensor networks and fills the gap of existing literature in this growing field. It emphasizes that there is a major interdependence among various layers of the network protocol stack. Contrary to wired or even one-hop cellular networks, the lack of a fixed infrastructure, the inherent mobility, the wireless channel, and the underlying routing mechanism by ad hoc and sensor networks introduce a number of technological challenges that are difficult to address within the boundaries of a single protocol layer.

All existing textbooks on the subject often focus on a specific aspect of the technology, and fail to provide critical insights on cross-layer interdependencies. To fully understand these intriguing networks, one needs to grasp specific solutions individually, and also the many interdependencies and cross-layer interactions.

Contents:

- Introduction
- Routing in Ad Hoc Networks
- Broadcasting, Multicasting and Geocasting
- Wireless LANs
- Wireless PANs
- Wireless Mesh Networks
- Directional Antenna Systems
- Cognitive Radio and Networks
- TCP over Ad Hoc Networks
- Applications of Sensor Networks
- Sensor Networks Design Considerations
- Sensor Networks in Controlled Environment and Actuators
- Security in Ad Hoc and Sensor Networks
- Integrating MANETs, WLANs, and Cellular Networks

Readership: Researchers, developers and institutions keen in the applications of wireless devices, and graduate and senior undergraduate students in networking, computer engineering and electrical engineering.

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