



# Ad Hoc Mobile Wireless Networks: Principles, Protocols, and Applications, Second Edition

*Subir Kumar Sarkar, T.G. Basavaraju, C. Puttamadappa*

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The military, the research community, emergency services, and industrial environments all rely on ad hoc mobile wireless networks because of their simple infrastructure and minimal central administration. Now in its second edition, **Ad Hoc Mobile Wireless Networks: Principles, Protocols, and Applications** explains the concepts, mechanism, design, and performance of these highly valued systems.

Following an overview of wireless network fundamentals, the book explores MAC layer, routing, multicast, and transport layer protocols for ad hoc mobile wireless networks. Next, it examines quality of service and energy management systems. Additional chapters cover mobility models for multi-hop ad hoc wireless networks as well as cross-layer design issues.

Exploring Bluetooth, IrDA (Infrared Data Association), HomeRF, WiFi, WiMax, Wireless Internet, and Mobile IP, the book contains appropriate examples and problems at the end of each chapter to illustrate each concept. This second edition has been completely updated with the latest technology and includes a new chapter on recent developments in the field, including sensor networks, personal area networks (PANs), smart dress, and vehicular ad hoc networks.

Self-organized, self-configured, and self-controlled, ad hoc mobile wireless networks will continue to be valued for a range of applications, as they can be set up and deployed anywhere and anytime. This volume captures the current state of the field as well as upcoming challenges awaiting researchers.

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