



Protocols and Architectures for Wireless Sensor Networks

By Holger Karl, Andreas Willig



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Protocols and Architectures for Wireless Sensor Networks provides a thorough description of the nuts and bolts of wireless sensor networks.

The authors give an overview of the state-of-the-art, putting all the individual solutions into perspective with one and other. Numerous practical examples, case studies and illustrations demonstrate the theory, techniques and results presented. The clear chapter structure, listing learning objectives, outline and summarizing key points, help guide the reader expertly through the material.

Protocols and Architectures for Wireless Sensor Networks:

- Covers architecture and communications protocols in detail with practical implementation examples and case studies.
- Provides an understanding of mutual relationships and dependencies between different protocols and architectural decisions.
- Offers an in-depth investigation of relevant protocol mechanisms.
- Shows which protocols are suitable for which tasks within a wireless sensor network and in which circumstances they perform efficiently.
- Features an extensive website with the bibliography, PowerPoint slides, additional exercises and worked solutions.

This text provides academic researchers, graduate students in computer science, computer engineering, and electrical engineering, as well as practitioners in industry and research engineers with an understanding of the specific design challenges and solutions for wireless sensor networks.

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"I am deeply impressed by the book of Karl & Willig. It is by far the most complete source for wireless sensor networks...The book covers almost all topics related to sensor networks, gives an amazing number of references, and, thus, is the perfect source for students, teachers, and researchers. Throughout the book the reader will find high quality text, figures, formulas, comparisons etc. - all you need for a sound basis to start sensor network research."

*Prof. Jochen Schiller, Institute of Computer Science,
Freie Universität Berlin*

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Review

"...this book represents an authoritative yet open-minded source to acquire a solid understanding of the fundamentals of WSNs. It is a recommended and enjoy read." (*Computing Reviews*, March 11, 2008)

From the Back Cover

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About the Author

Holger Karl is currently assistant professor in the Networking Group (Prof. Adam Wolisz) at the Technical University of Berlin. His research interests focus on wireless and mobile networks, with a certain emphasis on ad-hoc networks. He has published numerous papers and research articles in international journals (e.g. IEEE, IEE, CPE).

Andreas Willig is currently assistant professor at the University of Potsdam. His areas of interest comprise communication networks (wireless LANs, real-time systems and ad-hoc and sensor networks) and performance evaluation.

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