

1. Record Nr.	UNINA9911006638203321
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Titolo	Networking wireless sensors / / Bhaskar Krishnamachari
Pubbl/distr/stampa	Cambridge, UK ; ; New York, : Cambridge University Press, 2005
ISBN	1-107-15068-X 0-511-13801-6 1-280-42203-3 9786610422036 0-511-18338-0 0-511-13933-0 0-511-14055-X 0-511-31156-7 1-60119-754-3 0-511-54102-3 0-511-13978-0
Descrizione fisica	1 online resource (xii, 202 pages) : digital, PDF file(s)
Disciplina	004.68
Soggetti	Sensor networks Wireless LANs
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references (p. 183-196) and index.
Nota di contenuto	; 1. Introduction -- ; 2. Network deployment -- ; 3. Localization -- ; 4. Time synchronization -- ; 5. Wireless characteristics -- ; 6. Medium-access and sleep scheduling -- ; 7. Sleep-based topology control -- ; 8. Energy-efficient and robust routing -- ; 9. Data-centric networking -- ; 10. Transport reliability and congestion control -- ; 11. Conclusions.
Sommario/riassunto	Wireless sensor networks promise an unprecedented fine-grained interface between the virtual and physical worlds. They are one of the most rapidly developing information technologies, with applications in a wide range of fields including industrial process control, security and surveillance, environmental sensing, and structural health monitoring. Originally published in 2005, this book provides a detailed and

organized survey of the field. It shows how the core challenges of energy efficiency, robustness, and autonomy are addressed in these systems by networking techniques across multiple layers. The topics covered include network deployment, localization, time synchronization, wireless radio characteristics, medium-access, topology control, routing, data-centric techniques, and transport protocols. Ideal for researchers and designers seeking to create algorithms and protocols and engineers implementing integrated solutions, it also contains many exercises and can be used by graduate students taking courses in networks.
