1. Record Nr. UNINA9910877162603321

Titolo Short-range wireless communications : emerging technologies and

applications / / edited by Rolf Kraemer, Marcos D. Katz

Pubbl/distr/stampa Chichester, U.K., : Wiley, 2009

ISBN 1-282-02244-X

9786612022449 0-470-74012-4 0-470-74013-2

Descrizione fisica 1 online resource (370 p.)

Collana Wiley-WWRF series

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Disciplina 621.384

Soggetti Wireless communication systems

Computer networks

Lingua di pubblicazione Inglese

Formato Materiale a stampa

Livello bibliografico Monografia

Note generali Description based upon print version of record.

Nota di bibliografia Includes bibliographical references and index.

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## Sommario/riassunto

This unique book reviews the future developments of short-range wireless communication technologies Short-Range Wireless Communications: Emerging Technologies and Applications summarizes the outcomes of WWRF Working Group 5, highlighting the latest research results and emerging trends on short-range communications. It contains contributions from leading research groups in academia and industry on future short-range wireless communication systems, in particular 60 GHz communications, ultra-wide band (UWB) communications. UWB radio over optical fiber, and design rules for future cooperative short-range communications systems. Starting from a brief description of state-of-the-art, the authors highlight the perspectives and limits of the technologies and identify where future research work is going to be focused. Key Features: \*Provides an indepth coverage of wireless technologies that are about to start an evolution from international standards to mass products, and that will influence the future of short-range communications \*Offers a unique and invaluable visionary overview from both industry and academia \*Identifies open research problems, technological challenges, emerging technologies, and fundamental limits \*Covers ultra-high speed shortrange communication in the 60 GHz band, UWB communication, limits and challenges, cooperative aspects in short-range communication and visible light communications, and UWB radio over optical fiber This book will be of interest to research managers, R&D engineers, lecturers and graduate students within the wireless communication research community. Executive managers and communication engineers will also find this reference useful.