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Titolo	Antennas and propagation for body-centric wireless communications / / Peter S. Hall, Yang Hao, editors
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Collana	Artech House antennas and propagation series
Altri autori (Persone)	HallPeter S HaoYang
Disciplina	004.16
Soggetti	Wearable computers - Design and construction Wireless communication systems - Equipment and supplies - Design and construction Antennas (Electronics) - Design and construction Human-computer interaction Electronic books.
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Foreword; Preface; Chapter 1 Introduction to Body-Centric WirelessCommunications; 1.1 What are Body-Centric Communications; 1.1.1 Off- to On-Body Communications; 1.1.2 On-Body Communications; 1.1.3 Medical Implants and Sensor Networ; 1.2 Overview of Systems; 1.2.1 Narrowband Systems; 1.2.2 Wideband Systems; 1.3 Overview of Applications; 1.4 New Trends and Progress Since the Fi; 1.4.1 Propagation Characterization and C; 1.4.2 Measurement Methods; 1.4.3 Antenna De-embedding; 1.4.4 Materials; 1.4.5 Modeling of Body Dynamics; 1.4.6 Standardization; 1.5 Layout of the Book; References. Chapter 2 Electromagnetic Properties and Modelingof the Human Body2.1 Electromagnetic Characteristics of H; 2.2 Physical Body Phantoms; 2.2.1 Liquid Phantoms; 2.2.2 Semisolid (Gel) Phantoms; 2.2.3 Solid (Dry) Phantoms; 2.2.4 Examples of Physical Phantoms; 2.3 Numerical Phantoms; 2.3.1 Theoretical Phantoms; 2.3.2 Voxel

Phantoms; 2.4 Numerical Modeling Techniques for Antennas; 2.4.1 Introduction of Numerical Techniques; 2.4.2 On-Body Radio Channel Modeling; 2.5 Modeling of Dynamic Body Effects; 2.5.1 Methodology; 2.5.2 Measurements and Model Validation; References.

Chapter 3 Antenna Design and Channel Characterization for On-Body Communications at Microwave Frequencies 3.1 Introduction; 3.2 Measurement Methods; 3.2.1 Connection Between Antenna and Measurement; 3.2.2 Antenna De-embedding; 3.3 Body-Centric Channel Measurement and; 3.3.1 Path Gain; 3.3.2 Channel Statistics; 3.3.3 Channel Polarization Effects; 3.4 Antenna Design; 3.4.1 Performance Comparison; 3.4.2 Antenna-to-Surface Wave Coupling; 3.4.3 Antenna Match and Efficiency; 3.5 Multiple Antenna Systems; 3.5.1 Antenna Diversity; 3.5.2 MIMO; 3.5.3 Interference Cancellation; 3.6 Systems Modeling; 3.7 Conclusions.

Chapter 5 Ultrawideband Technology for Body-Centric Wireless Communications 5.1 Overview; 5.2 UWB Antennas for Body-Centric Wireless; 5.2.1 Design and Analysis; 5.2.2 Measurements; 5.2.3 Concluding Remarks; 5.3 Channel Simulation and Measurement Methods; 5.3.1 Simulation of the Radio Propagation; 5.3.2 Measurement of the Radio Propagation; 5.3.3 Concluding Remarks; 5.4 Channel Characterization and Modeling; 5.4.1 General Aspects; 5.4.2 Personal Area Network Scenarios; 5.4.3 Body Area Network Scenarios; 5.4.4 UWB Multiband-OFDM Based System Modeling; 5.5 Concluding Remarks; References.

Sommario/riassunto

Theory, design, and applications of wireless antennas for on-body electronic systems are covered in this updated edition. Advances in physical phantom design and production, recent developments in simulation methods and numerical phantoms, descriptions of methods for simulation of moving bodies, and the use of the body as a transmission channel are discussed as well as applications like Bluetooth headsets together with detailed treatment of techniques, tools, and challenges in developing on-body antennas for an array of medical, emergency response, law enforcement, personal entertainment, and military applications. Topics include: energy propagation around and into the body; on-body communication channels at microwave frequency bands, low frequency bands and ultrawideband systems for WPANs and WBANs; body-centric UWB antennas and channels; wearable mobile, EBG, and "smart fabric" antennas for cellular and WLAN communications; and telemedicine. --

2. Record Nr.	UNINA9910575796703321
Titolo	Amore e lavoro e altri saggi / N.J. Smelser, E.H. Erikson ; e altri saggi di Leonard I. Pearlin ... [et al.]
Pubbl/distr/stampa	Milano, : Rizzoli, 1983
Descrizione fisica	365 p. ; 22 cm
Collana	Nuovo mondo
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Collocazione	VIT / SME 4
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia