



Antennas and Propagation for Body-Centric Wireless Communications. Second Edition

Peter S. Hall, University of Birmingham, and Yang Hao, Queen Mary College, University of London, Editors

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Now in a newly updated and revised edition, this timely resource provides you with complete and current details on the theory, design, and applications of wireless antennas for on-body electronic systems. The Second Edition offers readers brand new material on 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. You also find a completely revised chapter on channel characterization and antenna design at microwave frequencies.

This cutting-edge volume brings you the state-of-the-art in existing 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 on the horizon. The book briefs you on energy propagation around and into the body and how to estimate performance of on-body wireless links, and then dives into the nuts-and-bolts of designing antenna systems that deliver the goods. It covers on-body communication channels at microwave frequency bands and at low frequency bands, as well as ultra wideband systems for WPANs and WBANs.

You get details on body-centric UWB antennas and channels, as well as advances in wearable mobile, EBG, and smart fabric antennas for cellular and WLAN communications. Chapters on telemedicine applications, such as remote diagnoses, and implantable medical devices cover crucial propagation issues and other obstacles that need to be addressed. Rounding out the coverage is a section on antenna design for body-sensor networks and their emerging military and space applications. Packed with hands-on guidance from noted experts, this volume will be indispensable for your efforts in designing and improving body-centric communication systems.

Contents: Introduction to Body-Centric Wireless Communications. Electromagnetic Properties and Modeling of the Human Body. On-Body Communication Channels at Microwave Frequency Bands. Transmission Mechanism of the Wearable Devices Using the Human Body as a Transmission Channel. Body Centric UWB Communications. Wearable Antennas for Cellular and WLAN Communications. Body-Sensor Networks for Space and Military Applications. Antennas and Propagation for Telemedicine and Telecare: On-Body Systems. Antennas and Propagation for Telemedicine: Implant Systems. Summary.

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