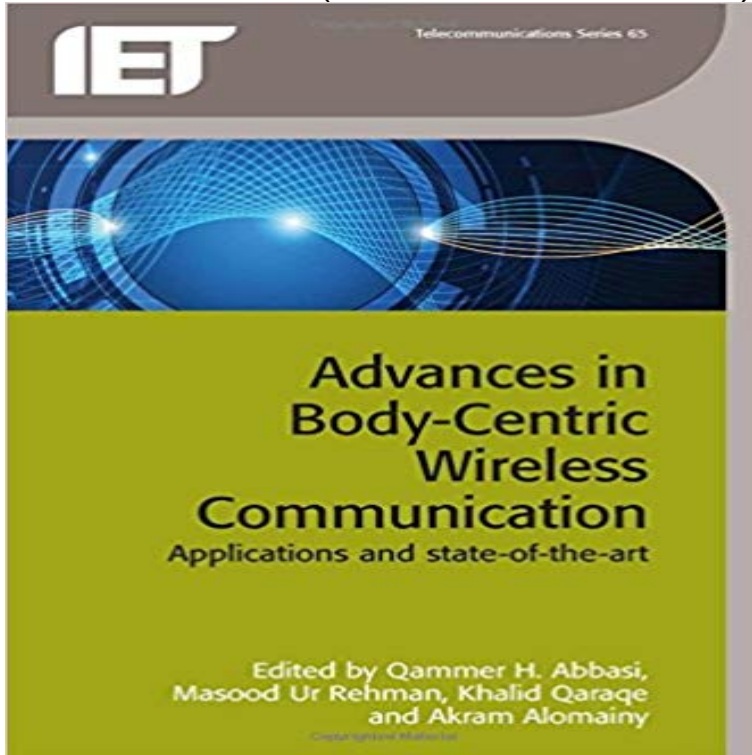


Advances in Body-Centric Wireless Communication: Applications and State-of-the-art (Telecommunications)



Body-centric wireless networking (BCWN) and communications is an emerging 4G technology for short (1-5m) and very short (below 1m) range communications systems, with great potential for applications in healthcare delivery, entertainment, surveillance, and emergency services. This book brings together contributions from a multidisciplinary team of researchers in the field of wireless and mobile communications, signal processing and medical measurements, to present the underlying theory, implementation challenges and applications of this exciting new technology. Topics covered include antennas and radio systems design challenges for BCWNs; on/off body propagation and modelling at narrow band frequencies; ultra wideband radio channel characterization and system modelling for BANs; millimeter-wave radio propagation for BCWN; implantable devices and in-vivo communication challenges for medical technologies; diversity and MIMO front-ends for efficient body-centric wireless communications; on-body antennas and radio channels for GPS applications; materials characterization and flexible structure design for textile-based wearable applications in military and consumer applications; ultra wideband body-centric networks for localization and motion capture; down-scaling to the nano-scale in body-centric nano-networks; and the road ahead for body-centric wireless communication and networks. Advances in Body-Centric Wireless Communication will be of interest to researchers in academia and industry working in telecommunications engineering, antenna design, mobile and wireless networks, and healthcare technologies.

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