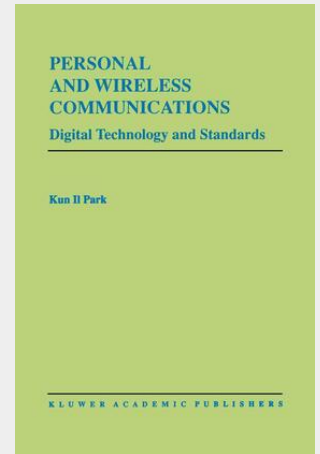


Personal and Wireless Communications

Digital Technology and Standards

Personal and Wireless Communications: Digital Technology and Standards is devoted to providing a concise explanation of the newly emerging wireless access standards for Personal Communications Services (PCS). PCS is a new concept which will expand the horizon of wireless communications beyond the limitations of current cellular systems to provide end users with the ability to communicate 'with anyone, anywhere, anytime'. Because of the inherent nature of mobility, which is characteristic of personal communications, wireless communications and PCS have become inseparable concepts. In particular, PCS will critically depend on wireless technologies for the mobile-to-network access portion of the service, which is referred to as the common air interface. The topic of this book is the wireless access technology used for the common air interface in order to support PCS. Personal and Wireless Communications: Digital Technology and Standards presents clear tutorial expositions of the main digital technology elements employed for wireless access systems. The main objective is to pull together in one place all the important basic technical elements necessary in understanding wireless access systems, so that the reader can obtain an overall view of the technology quickly and systematically. The book also reviews the common air interface standards for PCS, and in doing so has two main objectives. The first is to sift out and summarize important elements of the standards, which are buried in the veritable mountain of paper comprising the standards literature, in all too many unfamiliar terms, notations, and abbreviations. The second objective is to expand, almost paradoxically, some of the more important elements to explain the intent and significance of the written words of the standards. Personal and Wireless Communications: Digital Technology and Standards will provide a quick means of obtaining a comprehensive picture of overall aspects which are important in the area. This book will be useful as a text for an advanced course on the subject.



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