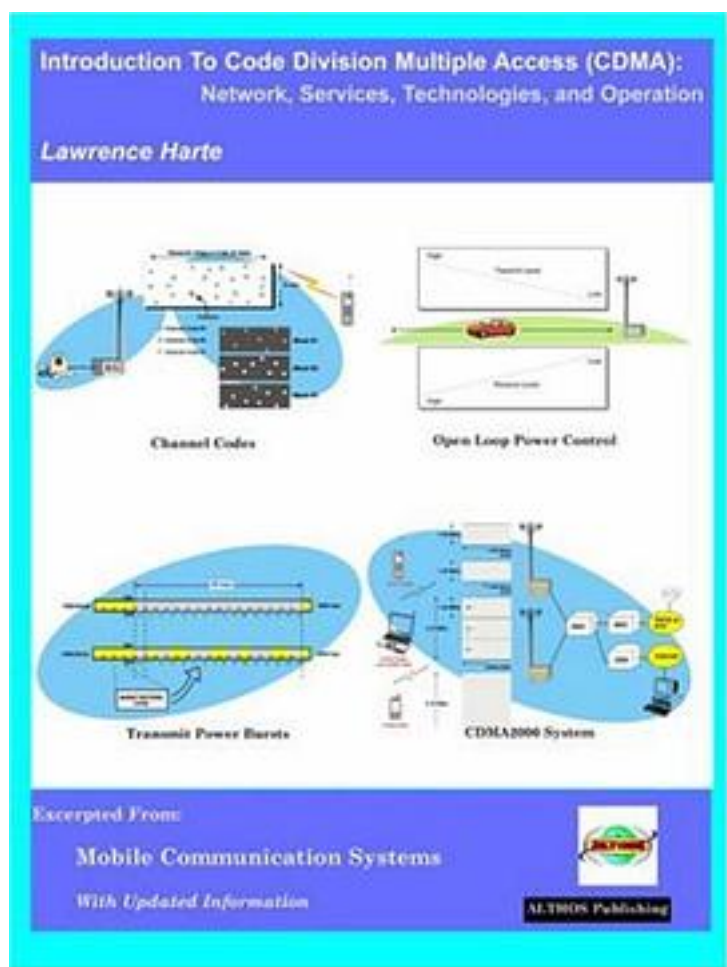


Introduction to Code Division Multiple Access (CDMA)



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This book explains the basic components, technologies used, and operation of IS-95

CDMA systems. You will discover why mobile telephone service providers have upgraded from 1st generation analog systems to more efficient and feature rich 2nd generation system. You will also discover how 2nd generation systems are gradually evolving into 3rd generation broadband multimedia systems. This book starts with the system components and basic services that the IS-95 CDMA system can provide. You will learn that the key types of CDMA devices include external radio modems, wireless PCMCIA cards, embedded radio modules, single mode and dual mode mobile telephones. You will then discover the different types of available services such as multiple types of voice services, data services, messaging services, and position location services. Explained are the physical and logical radio channel structures of the CDMA systems along with the basic frame and slot structures. Described are the fundamental capabilities and operation of the CDMA radio channel including channel coding, modulation types, variable speech coding, precise power control, and soft handoff. You will learn how each CDMA radio channel has 64 channel codes and that some are these are used for signaling (control channels) and others are used for user traffic (voice and data). Because the needs of voice and data communication are different, you will discover that the CDMA system essentially separates circuit switched (primarily voice) and packet switched (primarily data) services. Described are key functional sections of a CDMA network components and how they communicate with each other. You will learn how and why IS-95 CDMA is evolving into 3rd generation broadband systems including EVDO, EVDV, and CDMA2000.

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