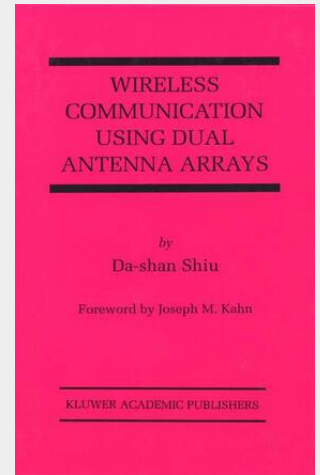


Shiu

Wireless Communication Using Dual Antenna Arrays

At present, the expansion of tetherless communications is a technological trend surpassed perhaps only by the explosive growth of the Internet. Wireless systems are being deployed today mainly for telephony, satisfying the industrialized nations' appetite for talk-on-the-go, and providing much-needed communications infrastructure in developing countries. The desire for wireless access to the Internet is starting to add fuel to the growth of tetherless communications. Indeed, the synergy of wireless and Internet technologies will lead to a host of exciting new applications, some of which are not yet envisioned. Future-generation wireless systems will achieve capacities much higher than the systems of today by incorporating myriad improvements. These innovations include transmission in higher-frequency bands, "smart antennas", multi-user detection, new forward error-correction techniques, and advanced network resource-allocation techniques. The term "smart antenna" usually refers to the deployment of multiple antennas at the base-station site, coupled with special processing of the multiple received signals. Smart antennas can adaptively reject co-channel interference and mitigate multipath fading, and have been identified by many as a promising means to extend base-station coverage, increase system capacity and enhance quality of service.



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