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Lingua di pubblicazione	Inglese
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Note generali	Includes index.
Nota di contenuto	Background -- Spatial Fading Correlation and Its Effects on Channel Capacity -- Power-Allocation Strategies -- Layered Space-Time Codes: Analysis and Design Criteria -- Transmit Diversity -- Open Issues.
Sommario/riassunto	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 ind- trialized nations' appetite for talk-on-the-go, and providing much-needed communications infrastructure in developing countries. The desire for wi- less 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 in- vations 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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