



Smart Antennas: Adaptive Arrays, Algorithms, & Wireless Position Location

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The interdisciplinary field of smart antennas has matured significantly in the 1990s. It has become clear that this area of work will provide a key technological boon for the wireless communications industry. By early 1999 there will be nearly 300 million wireless subscribers throughout the world, yet there has been relatively little radio spectrum provided to the mobile communications industry since the late 1970s and early 1980s, when cellular telephone systems around the world hosted their very first subscribers. Such rapid consumer growth brings with it radio frequency (RF) interferences and spectral crowding, as well as an urgent need to deploy additional base stations in a wide range of environments with minimal test and measurement. Couple this immense growth with the speed and miniaturization of today's digital signal processing devices, and the growing competition created by multiple wireless carriers, and it can be seen that the demand for smart antennas is just around the corner. This compendium contains classical publications and research papers which have and will continue to impact the emerging field of wireless adaptive arrays. The papers have been compiled based on graduate student research at the Mobile and Portable Radio Research Group (MPRG) at Virginia Tech. Papers are grouped according to the following topics: introductory readings; algorithms; architecture, hardware and applications; channel models; and performance evaluation. This book is a handy, single-source reference to assist graduate students, researchers and practitioners involved with the design, development and deployment of smart antenna technology.

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