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temporal channel models and analytic performance evaluation techniques establish a link between smart antenna systems and advanced receiver design techniques treat smart antennas specifically for UMTS like communication systems with applicable simulations and calculations supply code with Matlab GUI so readers can run or modify existing simulations or create new ones The field of smart antenna technology or more generally space time processing is rapidly becoming one of the most promising areas of mobile communications especially regarding the development of the first practical third generation mobile communication systems The authors have addressed many of the most basic questions relating to the use of space time processing in CDMA based third generation systems and have presented models for the integration of space time processing error correction coding and multi user detection techniques Included is extensive background information on cellular systems antenna array theory smart antenna techniques performance of basic space time processors and advanced space time processors The book also includes an extensive simulation program written in Matlab The simulation code implements both the uplink and the downlink of a UMTS like communication system This provides multiple options for simulating system performance using a variety of channel models as well as receiver structures Space Time Processing for CDMA Mobile Communications will be an invaluable reference work for engineers and researchers and a useful source for design engineers enabling them to understand the implications of adding space time processing systems to CDMA based communication systems

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Wireless and Mobile Communications Jack M. Holtzman, David Goodman, 2012-10-16 In

October 1993 the Rutgers University Wireless Information Network Laboratory hosted the fourth WINLAB Workshop on Third Generation Wireless Information Networks These events bring together a select group of experts interested in the long term future of Personal Communications Mobile Computing and other services supported by wireless telecommunications technology This is a fast moving field and we already see in present practice realizations of visions articulated in the earlier Workshops In particular the second generation systems that absorbed the attention of the first WINLAB Workshop are now commercial products It is an interesting reflection on the state of knowledge of wireless communications that the debates about the relative technical merits of these systems have not yet been resolved Meanwhile in the light of United States Government announcements in September 1993 the business and technical communities must confront this year a new generation of Personal Communications Services Here we have applications in search of the best technologies rather than the reverse This is a rare situation in the information business Today's advanced planning and forward looking studies will prevent technology shortages and uncertainties at the end of this decade By then market size and public expectations will surpass the capabilities of the systems of the mid 1990's Third Generation Wireless Information Networks will place greater burdens on technology than their predecessors by offering a wider range of services and a higher degree of service integration

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