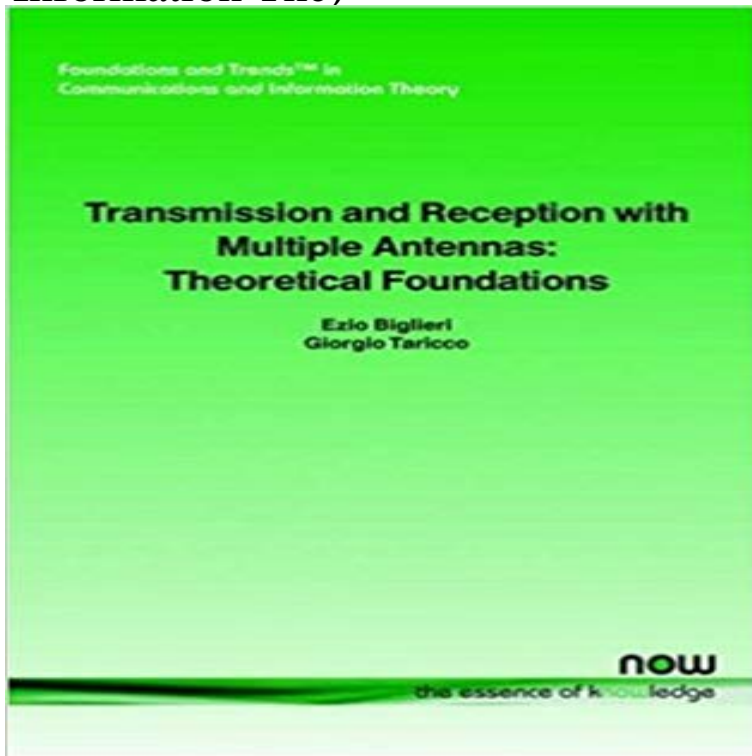


# Transmission and Reception with Multiple Antennas: Theoretical Foundations (Foundations and Trends in Communications and Information The)



Transmission and Reception with Multiple Antennas: Theoretical Foundations presents a comprehensive, yet compact, survey, emphasizing the mathematical aspects of single-user multiple-antenna theory. Wireless communication system design was until recently thought to have been limited in practice by time and bandwidth. The discovery that space, obtained by increasing the number of transmit and receive antennas, can also effectively generate degrees of freedom, and hence expand the range of choices made available to the design offers system designers important new opportunities. Transmission and Reception with Multiple Antennas: Theoretical Foundations describes the channel models deployed in such systems shows how to compute the capacities achieved, overviews space-time codes and describes how suboptimum architectures can be employed to simplify the receiver. It provides an excellent overview for designers, students and researchers working at the forefront of wireless communication systems.

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