

MIMO WIRELESS COMMUNICATIONS

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MIMO Wireless Communications. • Single Input Single Output (SISO). Tx. Rx. • What will happen if Tx and Rx employs multiple antennas? Ant 1. Ant 1. Fig.

Introduction (Chapter 1) - MIMO Wireless Communications

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MIMO - Wikipedia

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Bell Labs Technical Journal. This random fluctuation in signal level, known as fading, can severely affect the quality and reliability of wireless communication. Therefore, the space dimension is used again, or multiplexed, more than one time. This is known as the multiplexing gain and this basic finding in information theory. In single-stream beamforming, the same signal is emitted from each of the transmit antennas with appropriate phase and gain weighting such that the signal power is maximized at MIMO Wireless Communications receiver input. In a basic MIMO system more than one transmitting antennas and single or multiple receiving antennas used for signal transmission simultaneously. The signal is emitted from each of the transmit antennas with full or near orthogonal waveforms. The results of research on multi-user MIMO technology have been emerging.