

multiantenna channels capacity coding pdf

Precoding is a generalization of beamforming to support multi-stream (or multi-layer) transmission in multi-antenna wireless communications. In conventional single-stream beamforming, the same signal is emitted from each of the transmit antennas with appropriate weighting (phase and gain) such that the signal power is maximized at the receiver output.

Precoding - Wikipedia

In radio, multiple-input and multiple-output, or MIMO (/ ɛ̃ˈ m a ɛ̃ˈ m o ɛ̃ˈ, ɛ̃ˈ m i ɛ̃ˈ• m o ɛ̃ˈ /), is a method for multiplying the capacity of a radio link using multiple transmit and receive antennas to exploit multipath propagation. MIMO has become an essential element of wireless communication standards including IEEE 802.11n (Wi-Fi), IEEE 802.11ac (Wi-Fi), HSPA+ (3G), WiMAX (4G), and Long Term ...

MIMO - Wikipedia

Selected IEEE Journal Papers: F. Wei, Wen Chen, Y. Wu, J. Ma, and T. Tsiftsis, "Message-Passing Receiver Design for Joint Channel Estimation and Data Decoding in Uplink Grant-Free SCMA Systems," IEEE Transactions on Wireless Communications, 2018

Selected IEEE Journal Papers: - Wen Chen-Wireless Network

Beamforming Directional transmission/reception to optimize a design criterion [1] Objective: Design transmit & receive beamformers to nullify the

Beamforming Techniques in Wireless Communications

Research Summary. My current research is at the intersection of communication theory, signal processing, and information theory. A primary research thrust is the advancement of MIMO (multiple-input multiple-output) communication technology including space-time coding, efficient receiver algorithms, channel quantization, synchronization, scheduling algorithms, cross-layer design for MIMO ad hoc ...

Resume - Prof. Robert W. Heath Jr.

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