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The design of compact printed MIMO antenna systems is a challenging task specially when it is made for small factor mobile terminals. The introduction of MIMO brought with it several performance metrics and measurement methods to allow the designer gauge the performance of his antenna system in real environments.

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Wireless communications has made a huge leap during the past two decades. The multiple-input-multiple-output (MIMO) technology was proposed in the 1990's as a viable solution that can overcome the data rate limit experienced by single-input-single-output (SISO) systems. This resource is focused on printed MIMO antenna system design.

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### **Researchers propose 3D printed MIMO antennas to improve 5G ...**

A multi-band multi-antenna system has become an important trend in the development of mobile communication systems. However, strong mutual coupling tends to occur between antenna elements with a small space, distorting array antennas' performance. Therefore, in the multiple-input multiple-output (MIMO) antenna system, high isolation based on miniaturization of the

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antenna array has been pursued.

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## **Mohammad S. Sharawi - Google Scholar**

Antenna Company offers antenna solutions for a wide range of enterprise, consumer and IoT applications. Our designs are focused on applications where best in class antenna performance is required. We offer a growing family of standard products and customized solutions, spanning Wi-Fi, LTE, NB-IOT, CAT-M, CBRS, GNSS and 5G functionality.

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Ansys 5G Antenna Solutions. Designing 5G wireless systems is a huge undertaking. Antenna beamforming and beamsteering in 5G are key to improve the capacity and data rates for wireless applications. Massive MIMO, for instance, requires phased array antennas to be designed carefully to optimize the gain and ensure targeted coverage.

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A planar, compact UWB MIMO antenna with four elements that accomplish band rejection from 4.91 to 6.41 GHz is presented. Rejection is accomplished using an L-C stub connected to the ground plane.

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A hexagonal shaped six-port multiple-input-multiple-output (MIMO) antenna array comprising of six printed circular monopole antennas with wideband characteristics is presented. Based on the measured data,  $-10$  dB impedance bandwidth of the antenna is found to be from 3.44 GHz to 4.68 GHz.

### **Low mutual coupling six-port planar antenna for the MIMO ...**

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