

Uwb (ultra Breitband) Kommunikationssysteme Mit Mehrfachantennen - Daniel Rogusch

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Ziel dieser Arbeit ist die Untersuchung von Mehrantennensystemen im Ultra Breitband und die zu erzielende Kapazitätssteigerung dieser Systeme gegenüber Einantennensystemen. Dabei liegt der Schwerpunkt der Betrachtung nicht in der Bestimmung der theoretisch oder praktisch maximal zu erreichenden Kanalkapazität. Vielmehr werden die relativen Kapazitätsunterschiede der in 2.2 aufgeführten Systeme untersucht. Dazu wurden in einem ersten Arbeitsschritt reale Übertragungsfunktionen für die verschiedenen betrachteten Szenarien mit einem Networkanalyser gemessen. Zum Einsatz kamen dabei speziell entwickelte Ultra-Breitband Antennen, welche in Kapitel 2.3 näher beschrieben werden. Anschließend wurde in einem weiteren Schritt eine einfache Matlab-Simulation aufgebaut, welche von einem auf die Bandbreite B begrenzten AWGN-Kanal (Additive White Gaussian Noise) mit einer konstanten Rauschleistungsdichte N_0 ausgeht und ein breitbandiges Kommunikationssystem nachbildet. Grundlage der Simulation bilden die real gemessenen Übertragungsfunktionen. Mit Hilfe dieser Simulation erfolgt eine Kapazitätsbestimmung der verschiedenen Systeme, welche einen Vergleich ermöglicht und den Kapazitätsgewinn durch die Verwendung von Mehrantennensystemen quantifiziert. Author: Rogusch, Daniel Publisher: GRIN Verlag Illustration: N Language: GER Title: UWB (Ultra Breitband) Kommunikationssysteme mit Mehrfachantennen Pages: 00036 (Encrypted PDF) On Sale: 2004-01-01 SKU-13/ISBN: 9783638288705 Category: Science : General

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