Abstracts

Indoor and Outdoor Propagation Measurements at 5 and 60 GHz for Radio LAN Application

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An increasing demand for wireless communication between computers requires the allocation of new frequency ranges for this application. The propagation characteristics of these frequency bands have to be studied extensively in order to develop a set of channel models which are essential for the selection of the optimal modulation- equalisation- and error correction schemes. This paper presents the results of a variety of measurements both at 5 and 60 GHz which lead to a better understanding of the performance of the radio channel. Those measurements include swept frequency, delay spread and angle of arrival measurements (at 60 GHz) as well as investigations on space diversity.

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