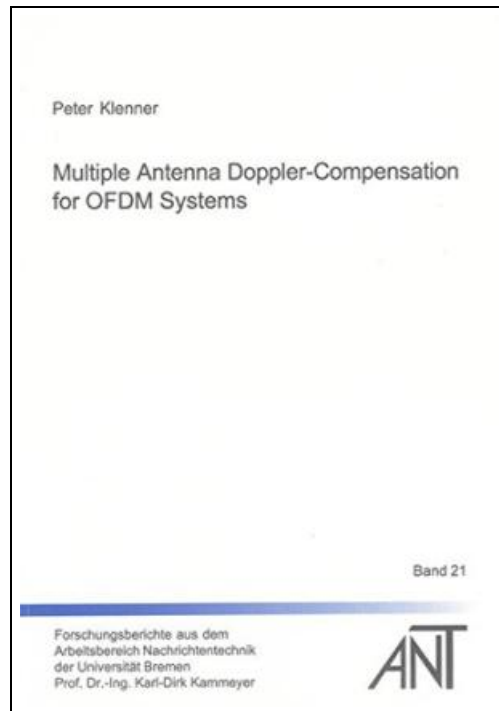


Multiple Antenna Doppler-Compensation for OFDM Systems



Filesize: 5.64 MB

Reviews

*This ebook is wonderful. Of course, it really is perform, nevertheless an interesting and amazing literature. Its been printed in an extremely straightforward way and it is simply after i finished reading this ebook where in fact changed me, modify the way i believe.
(Prof. Maxwell Stracke)*

MULTIPLE ANTENNA DOPPLER-COMPENSATION FOR OFDM SYSTEMS



To download **Multiple Antenna Doppler-Compensation for OFDM Systems** eBook, make sure you refer to the button beneath and download the file or have access to other information which are relevant to MULTIPLE ANTENNA DOPPLER-COMPENSATION FOR OFDM SYSTEMS book.

Shaker Verlag Mai 2011, 2011. Buch. Book Condition: Neu. Neuware - The pursuit of high data-rates for users moving with high speeds puts a lot of strain on the underlying data network. Nowadays, OFDM is an established method to overcome the channel's frequency selectivity which is caused by the high signalling rate. It transmits data in narrow frequency bands which are mutually orthogonal. This on the one hand defuses the equalization problem, but on the other hand it causes a prolonged symbol duration. However, the time selectivity of the channel, which is caused by the Doppler effect, leads to a loss of the frequency bands' orthogonality. This work is concerned with reliable high-rate OFDM data communication between a stationary transmitter and a highly mobile receiver. The key issue is the employment of multiple antennas at the receiver to compensate rapid channel fluctuations caused by the Doppler effect. To this end, known as well as novel techniques based on a uniform linear antenna array are presented and discussed. Those methods, on the one hand, exploit the relationship between angle of incidence and Doppler shift of impinging waves, such that limiting the range of incidence angles leads to a reduction of time selectivity. On the other hand, the correlation between the received signals of all antennas can be exploited to generate seemingly non-moving antennas. From the essential theory of MIMO systems certain figures of merit emerge, which allow to dimension the linear antenna array and the consecutive signal processing. Furthermore, the problem of combining the task of Doppler spread compensation and MIMO communication is addressed. Here, the well-known BLAST scheme to increase the data rate and the Alamouti space-time code to increase transmit diversity are considered. Moreover, the tradeoff of spatial diversity for the ability of efficient Doppler spread compensation is discussed....



[Read Multiple Antenna Doppler-Compensation for OFDM Systems Online](#)



[Download PDF Multiple Antenna Doppler-Compensation for OFDM Systems](#)

Related PDFs



[PDF] Programming in D

Access the link listed below to download "Programming in D" document.

[Save PDF](#)

»



[PDF] Have You Locked the Castle Gate?

Access the link listed below to download "Have You Locked the Castle Gate?" document.

[Save PDF](#)

»



[PDF] Oxford Junior Thesaurus

Access the link listed below to download "Oxford Junior Thesaurus" document.

[Save PDF](#)

»



[PDF] Adobe Indesign CS/Cs2 Breakthroughs

Access the link listed below to download "Adobe Indesign CS/Cs2 Breakthroughs" document.

[Save PDF](#)

»



[PDF] Fart Book African Bean Fart Adventures in the Jungle: Short Stories with Moral

Access the link listed below to download "Fart Book African Bean Fart Adventures in the Jungle: Short Stories with Moral" document.

[Save PDF](#)

»



[PDF] The Java Tutorial (3rd Edition)

Access the link listed below to download "The Java Tutorial (3rd Edition)" document.

[Save PDF](#)

»