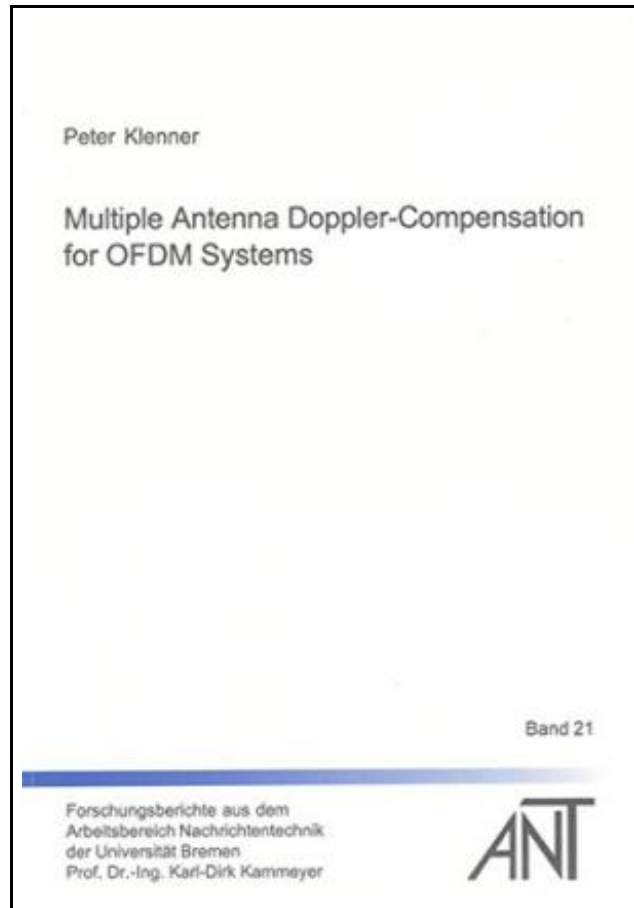


Multiple Antenna Doppler-Compensation for OFDM Systems



Filesize: 5.26 MB

Reviews

This book is great. I have go through and so i am confident that i will going to read through once again again in the future. I am just easily can get a satisfaction of looking at a written book.
(Miss Vernie Schimmel)

MULTIPLE ANTENNA DOPPLER-COMPENSATION FOR OFDM SYSTEMS



To get **Multiple Antenna Doppler-Compensation for OFDM Systems** PDF, remember to refer to the button below and save the document or get access to other information which might be in conjunction with **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](#)

See Also



[PDF] Programming in D

Follow the web link below to read "Programming in D" PDF document.

[Download ePub »](#)



[PDF] Have You Locked the Castle Gate?

Follow the web link below to read "Have You Locked the Castle Gate?" PDF document.

[Download ePub »](#)



[PDF] Oxford Junior Thesaurus

Follow the web link below to read "Oxford Junior Thesaurus" PDF document.

[Download ePub »](#)



[PDF] Adobe Indesign CS/Cs2 Breakthroughs

Follow the web link below to read "Adobe Indesign CS/Cs2 Breakthroughs" PDF document.

[Download ePub »](#)



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

Follow the web link below to read "Fart Book African Bean Fart Adventures in the Jungle: Short Stories with Moral (Paperback)" PDF document.

[Download ePub »](#)



[PDF] The Java Tutorial (3rd Edition)

Follow the web link below to read "The Java Tutorial (3rd Edition)" PDF document.

[Download ePub »](#)