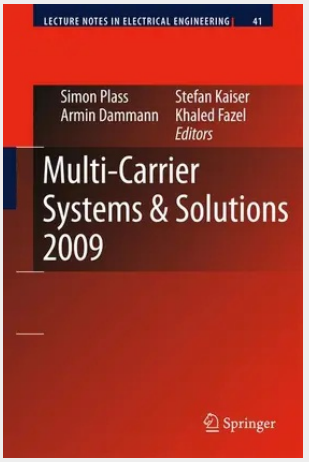
Plass / Dammann / Kaiser

Multi-Carrier Systems & Solutions 2009

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Since the principle of multi-carrier code division multiple access (MC-CDMA) was simultaneously proposed by Khaled Fazel et al. and Nathan Yee et al: at the IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) in the year 1993, multi-carrier spread spectrum has rapidly become one of the most wide spread independent research topics on the ?eld of mobile radio communications. Therefore, the International Workshop on Multi-Carrier Spread Spectrum (MC-SS) was initiated in the year 1997 and renamed to the International Workshop on Multi-Carrier Systems & Solutions in 2009. The wireless standards 3GPP Long Term Evolution (LTE), WiMAX, IEEE 802.11a/n, and DxB have in common that they apply the spectrally ef?cient mul- carrier modulation in order to achieve very high rate data transmission. This trend is expected to continue in the future with the development of the next gene- tion of mobile wireless communications under the IMT-Advanced standardization activities. Additional measures like advanced coding, spreading, and MIMO are combined with multi-carrier transmission to further enhance the ef?ciency of future systems. The material summarized in this volume was selected for the seventh Int- national Workshop on Multi-Carrier Systems & Solutions (MC-SS 2009) held in Herrsching, Germany from 05–06 May 2009. The workshop was organized by the Institute of Communications and Navigation of the German Aerospace Center (DLR) in Oberpfaffenhofen, Germany.

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