

# **Beyond OFDM: Multicarrier Air-interfaces for future wireless**

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**Abstract:**

There have been many recent proposals for new multicarrier transmission techniques for 5G and beyond, to overcome some of the deficiencies of OFDM for flexible and very high capacity wireless. This paper reviews the (mutually contradictory) ideal characteristics of such an air-interface, and describes a general signal model which is capable of describing most of the recently proposed waveforms, plus others including wavelet OFDM and single carrier transmission. It will also include a few recent results on wavelet OFDM as an example.