



Highly Efficient Multiband and Broadband Power Amplifiers for Modern RF Transmitters

By Xuan Anh Nghiem

Verlagsgruppe Mainz Sep 2016, 2016. Taschenbuch. Condition: Neu. Neuware - This dissertation deals with the development and implementation of novel architectures and concepts as efficiency enhancement techniques for multiband and broadband RF power amplifiers, which are crucial for multiband/ multimode or software-defined, high-speed modern wireless communications. The concurrent multiband Doherty power amplifier in this work is the first efficiency enhancement architecture ever proposed for more than two bands. What makes it possible is the realization of multiband passive components, especially the impedance inverter network. The design concept has been validated with the implementation of concurrent triband and quadband Doherty PAs. The sequential power amplifier with Doherty-type active load modulation (SPA-D) has also been devised as a wideband solution to reduce energy consumption of wireless transmitters. The SPA-D concept exploits a specific load modulation region that has, so far, not been used in the Doherty PA to approximate the sequential behavior as found in the broadband sequential power amplifier (SPA) by adopting a new output combiner. The PA provides a highly efficient amplification for wideband modulated signals of large crest factor imposed by modern wireless systems, such as WCDMA, LTE etc. The concept is also extended to 3-way...



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