



Distortion in Rf Power Amplifiers (Artech House Microwave Library)

Joel Vuolevi, Timo Rahkonen

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A treatment of distortion in RF power amplifiers. It seeks to offer guidance on designing easily linearizable systems that have low memory effects. The reader is offered a detailed understanding of how the matching impedances of a power amplifier and other RF circuits can be tuned to minimize overall distortion. It also demonstrates how to build models that can be used for distortion simulations. The measurement methodology should enable the reader to gauge the amplitude and phase of distortion components and recognize memory effects. The volume explains that by killing memory effects, it is possible to use simple linearizers, such as analogue predistortion, and still achieve sufficient performance. It presents a distortion analysis technique that allows you to repeat the analysis with other amplifier structures. With over 120 equations and more than 110 illustrations, this practical reference seeks to provide the assistance necessary to create amplifiers suitable for linear transmitters, and offers views of semiconductor modelling.

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