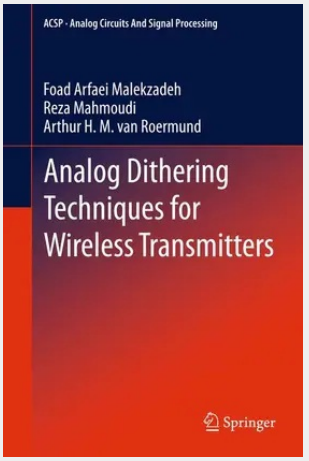
Arfaei Malekzadeh / Mahmoudi / van Roermund

Analog Dithering Techniques for Wireless Transmitters



This book describes innovative techniques and the theoretical background for design and analysis of high performance RF/Microwave transmitters. It introduces new, robust linearization/efficiency enhancement techniques, applicable to all of the switched mode power amplifiers. Novel analysis methods associated with these new techniques are also introduced and supporting measurement results are documented. Innovative graphical representation methods are used to help the reader understand the matter intuitively. Applications for the techniques discussed are very extensive, ranging from data convertors to RF/Microwave/mm-wave wireless/wire line transmitters. The authors have avoided using lengthy formulas in the discussion and have used an intuitive and simple approach to go through the necessary details. Readers will gain valuable understanding of the dither phenomenon, its mechanism, effect and undesired side effects. The novel architectures introduced are simple, don't require complicated DSP techniques and are easy to implement.

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