



High Linearity RF Amplifier Design

By Peter B. Kenington

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Based on the author's real-world design experience in this key emerging area, this comprehensive guide examines and compares all major RF power amplifier linearization techniques in detail. Featuring practical tips, more than 250 illustrations, and over 600 verified equations, the book seeks to save the reader valuable design time whilst helping them avoid costly design errors. It covers the modelling and measurement of amplifier non-linearity, and describes the main methods for overcoming non-linearity in a wide range of applications, including: base stations using feedforward and predistortion; mobile communications systems and handsets using RF or digital predistortion, cartesian loop, LINC and envelope elimination and restoration (EECR); and satellite systems.

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Editorial Review

From the Author

The basic idea behind this book was to provide a single, common reference source for all of the key RF amplifier linearisation technologies currently used or in development. This allows the reader to assess their relative merits and to compare them on an equal footing, without (hopefully) a bias for or against any particular technology. The text is based upon my experience in performing research and, latterly, commercial development of RF linear amplifiers for a variety of applications in both portable and base-station equipment.

The book is aimed at both practising engineers and postgraduate researchers in the RF field. It contains detailed design methodologies for all of the main techniques, together with derivations of the key equations or results in most areas. These derivations are not relied upon in order to convey an understanding of the techniques involved, but are provided for those wishing to gain a deeper understanding of the operation of the various linearisation schemes covered. It also details the key RF power amplifier design criteria which impact upon the operation of a linearisation scheme, since such systems cannot usually be considered purely in isolation.

One of the potential problems with trying to cover all of the main techniques in a single volume is in the level of detail which can be included on each. In this case, I deliberately did not compromise on design detail, and particularly not for any of the major techniques (e.g. feedforward, Cartesian loop, digital and analogue predistortion).

In summary, I believe that the book is a readable design guide to RF amplifier linearisation, covering the practical issues of realising lineariser systems, the design equations used in defining key system parameters and the theoretical background to the techniques covered. I hope you find it a valuable and enjoyable read.

About the Author

Peter B. Kenington is the head of advanced development at Wireless Systems International Ltd. He holds a Ph.D. in Communications Engineering from the University of Bristol.

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