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Advanced Techniques in RF Power

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Design (Artech House, 2002) and has over 20 years of experience in microwave technology design and development. He received his Ph.D. from Cambridge University.

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Figure 1.10 Device characteristics tailored to give current waveforms having only even harmonics, as shown in Figure 1.9, for sinusoidal voltage input. Conventional Class B using linear device is shown dotted. - "Advanced Techniques in RF Power Amplifier Design"

Figure 1.10 from Advanced Techniques in RF Power Amplifier ...

To alleviate integration issues, new GaAs processes such as BiFET or Bi-HEMT are now being developed to enable grouping of different functions, such as linear power amplification, logic and control circuitry, RF switching, and low noise power amplification on a single die for RFFE module integration.

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for the RF power amplifiers in mobile phone systems becomes more and more popular. Especially, new predistortions for power amplifiers with both nonlinearities and memory effects interest the researchers. In our thesis, novel predistortion techniques are presented for this purpose. Firstly, we improve the digital injection

Novel Predistortion Techniques for RF Power Amplifiers

RF power devices advance for wireless mobile designs. 5G wireless mobile networks promise ultra-low latency, higher data rates, and greater user capacity, but they require new and improved RF devices, including amplifiers and transceivers, that deliver higher integration and lower power consumption. Network traffic is growing at an exponential rate due to the growing popularity of mobile computing devices.

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