



Wideband Amplifier Design (Materials, Circuits and Devices)

Allen L. Hollister

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In this book, the theory needed to understand wideband amplifier design using the simplest models possible will be developed. This theory will be used to develop algebraic equations that describe particular circuits used in high frequency design so that the reader develops a 'gut level' understanding of the process and circuit. SPICE and Genesys simulations will be performed to show the accuracy of the algebraic models. By looking at differences between the algebraic equations and the simulations, new algebraic models will be developed that include parameters originally left out of the model. By including these new elements, the algebraic equations provide surprising accuracy while maintaining simplicity and understanding of the circuit. While the emphasis is on wide bandwidth (DC to several GHz) amplifiers with good transient response, the techniques presented are also quite useful to people doing classic analog design. For example, the same things that cause certain one-transistor amplifiers to oscillate at 5 GHz can also explain the behavior of an op-amp loaded into a capacitor. The term 'high frequency' is relative. As such, this book is of interest to anyone doing analog design. Both op-amp designers (Integrated Circuit) and op-amp users will find the material useful. Other applications include fast digitizers, analog to digital converters (A/D), and digital to analog converters (D/A), as well as the emerging area of Ultra Wideband (UWB) radio. Narrow bandwidth (classic Radio Frequency (RF) design) is either similar to, or a subset of the techniques presented in this book. As such, classic RF designers will also find the contents of this book useful.

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