



Advanced Frequency Synthesis by Phase Lock (Hardback)

By William F. Egan

John Wiley and Sons Ltd, United States, 2011. Hardback. Condition: New. 1. Auflage. Language: English . Brand New Book. The latest frequency synthesis techniques, including sigma-delta, Diophantine, and all-digital Sigma-delta is a frequency synthesis technique that has risen in popularity over the past decade due to its intensely digital nature and its ability to promote miniaturization. A continuation of the popular Frequency Synthesis by Phase Lock, Second Edition, this timely resource provides a broad introduction to sigma-delta by pairing practical simulation results with cutting-edge research. Advanced Frequency Synthesis by Phase Lock discusses both sigma-delta and fractional-n the still-in-use forerunner to sigma-delta employing Simulink(R) models and detailed simulations of results to promote a deeper understanding. After a brief introduction, the book shows how spurs are produced at the synthesizer output by the basic process and different methods for overcoming them. It investigates how various defects in sigma-delta synthesis contribute to spurs or noise in the synthesized signal. Synthesizer configurations are analyzed, and it is revealed how to trade off the various noise sources by choosing loop parameters. Other sigma-delta synthesis architectures are then reviewed. The Simulink simulation models that provided data for the preceding discussions are described, providing guidance in making...



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Reviews

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Very helpful to any or all category of folks. It is writter in simple phrases rather than difficult to understand. Its been developed in an exceptionally simple way and is particularly just after i finished reading this pdf in which basically transformed me, modify the way in my opinion.

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