



Phase Locked Loops 6/e: Design, Simulation, and Applications

Roland E. Best

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The Definitive Introduction to Phase-Locked Loops, Complete with Software for Designing Wireless Circuits!

The Sixth Edition of Roland Best's classic *Phase-Locked Loops* has been updated to equip you with today's definitive introduction to PLL design, complete with powerful PLL design and simulation software written by the author.

Filled with all the latest PLL advances, this celebrated sourcebook now includes new chapters on frequency synthesis...CAD for PLLs...mixed-signal PLLs...all-digital PLLs...and software PLLs...plus a new collection of sample communications applications. An essential tool for achieving cutting-edge PLL design, the Sixth Edition of *Phase-Locked Loops* features:

- A wealth of easy-to-use methods for designing phase-locked loops
- Over 200 detailed illustrations
- New to this edition: new chapters on frequency synthesis, including fractional-N PLL frequency synthesizers using sigma-delta modulators; CAD for PLLs, mixed-signal PLLs, all-digital PLLs, and software PLLs; new PLL communications applications, including an overview on digital modulation techniques

Inside this Updated PLL Design Guide

• Introduction to PLLs • Mixed-Signal PLL Components • Mixed-Signal PLL Analysis • PLL Performance in the Presence of Noise • Design Procedure for Mixed-Signal PLLs • Mixed-Signal PLL Applications • Higher Order Loops • CAD and Simulation of Mixed-Signal PLLs • All-Digital PLLs (ADPLLs) • CAD and Simulation of ADPLLs • The Software PLL (SPLL) • The PLL in Communications • State-of-the-Art Commercial PLL Integrated Circuits • Appendices: The Pull-In Process • The Laplace Transform • Digital Filter Basics • Measuring PLL Parameters

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