



Phase-Locked Loops: Theory, Design, and Applications/Book and Disk

Roland E. Best

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Phase-locked loops (PLLs) are so widely used today - in TV and FM receivers, motor speed controls, modulators, demodulators, frequency synthesizers, and more - that this handbook is a must-have for all electronic circuit designers. Fully revised and updated, this second edition builds on previous success by including a special design program disk that enables designers to simulate a wide spectrum of PLLs and achieve a high level of advance performance assurance. It covers the theory, design, and real-world applications of all four types of PLLs: linear (LPLL); digital (DPLL), which actually is an analog/digital hybrid; all-digital (ADPLL); and the software PLL (SPLL). A special convenience feature is a chart detailing available PLL ICs from American, European, and Japanese sources. For this user-friendly guidebook the author also developed greatly simplified design equations that give the key parameters of every PLL type in a very compact form. A number of case studies based on the simulation program included on disk enable the reader to walk easily through the principles of PLLs and see how they work in particular designs without having to build costly bread boards. With its comprehensive design and application information about every type of PLL, this is an indispensable guide for engineers dealing with the design of PLL circuits or software packages for SPLLs. It is also a valuable textbook for students seeking to enter the lucrative PLL field.

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