



# Frequency Synthesizers: Theory and Design

*Vadim Manassewitsch*

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## **Frequency Synthesizers: Theory and Design** Vadim Manassewitsch

Phase-Locked Loops Application to Coherent Receiver Design Alain Blanchard This valuable guide provides complete, systematic coverage of phase-locked loops (PLL) and their direct application in the fields of communication, radiolocalization, and time and frequency control and instrumentation. It shows how to specify and evaluate the performance of equipment using PLL and how to attain the maximum benefits from the remarkable properties of such equipment. Progressively building up the theory of phase-locked loops with easily understood mathematics, this book uses physical behavior descriptions, experimental results, and numerical examples to illustrate and amplify the text. All the important results on PLL are contained in this reference, with many graphs, formulas, and diagrams not usually found in a single volume. For design, text and control engineers, technical managers, all users of communication equipment, and students involved in communication theory, this book will serve as an indispensable guide to phase-locked loops. 1976 (1-07941-3) 389 pp.

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