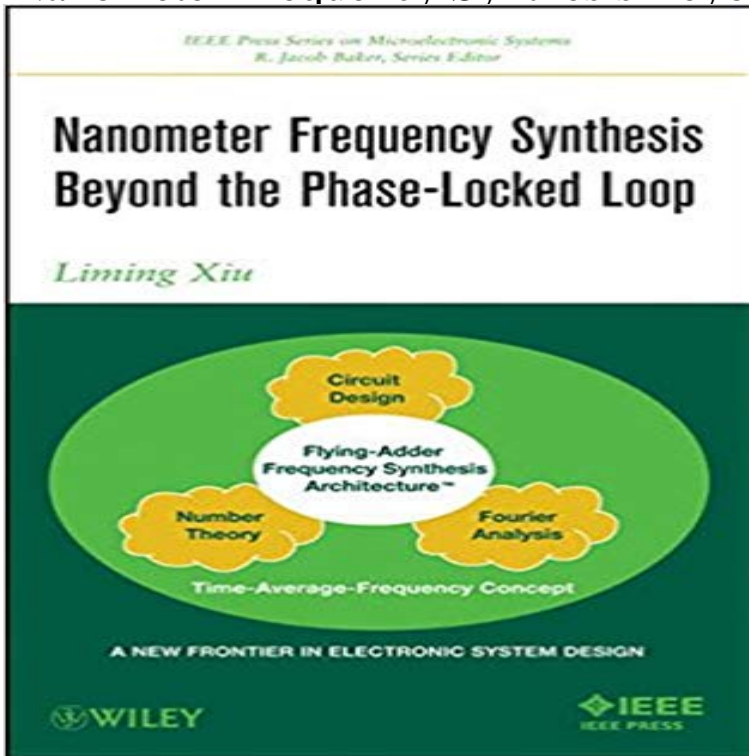


# Nanometer Frequency Synthesis Beyond the Phase-Locked Loop



Introducing a new, pioneering approach to integrated circuit design Nanometer Frequency Synthesis Beyond Phase-Locked Loop introduces an innovative new way of looking at frequency that promises to open new frontiers in modern integrated circuit (IC) design. While most books on frequency synthesis deal with the phase-locked loop (PLL), this book focuses on the clock signal. It revisits the concept of frequency, solves longstanding problems in on-chip clock generation, and presents a new time-based information processing approach for future chip design. Beginning with the basics, the book explains how clock signal is used in electronic applications and outlines the shortcomings of conventional frequency synthesis techniques for dealing with clock generation problems. It introduces the breakthrough concept of Time-Average-Frequency, presents the Flying-Adder circuit architecture for the implementation of this approach, and reveals a new circuit device, the Digital-to-Frequency Converter (DFC). Lastly, it builds upon these three key components to explain the use of time rather than level to represent information in signal processing. Provocative, inspiring, and chock-full of ideas for future innovations, the book features: A new way of thinking about the fundamental concept of clock frequency A new circuit architecture for frequency synthesis: the Flying-Adder direct period synthesis A new electronic component: the Digital-to-Frequency Converter A new information processing approach: time-based vs. level-based Examples demonstrating the power of this technology to build better, cheaper, and faster systems Written with the intent of showing readers how to think outside the box, Nanometer Frequency Synthesis Beyond the Phase-Locked Loop is a must-have

resource for IC design engineers and researchers as well as anyone who would like to be at the forefront of modern circuit design.

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