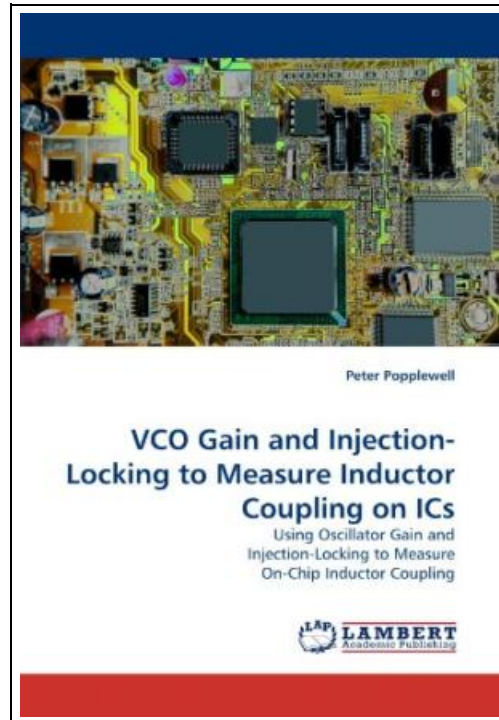


VCO Gain and Injection-Locking to Measure Inductor Coupling on ICs



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Reviews

This publication is definitely not simple to begin on studying but quite fun to see. It really is full of knowledge and wisdom I am just effortlessly can get a satisfaction of studying a created pdf.
(Alfreda Bradtke)

VCO GAIN AND INJECTION-LOCKING TO MEASURE INDUCTOR COUPLING ON ICs



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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Using Oscillator Gain and Injection-Locking to Measure On-Chip Inductor Coupling | The theoretical behavior of oscillators is explored using the gm model. Mathematical derivations based on the model show that the frequency response of an LC oscillator resembles that of a high-Q bandpass filter with exceptionally high, but finite, pass-band gain. The linear derivations predict a 20 dB/decade roll-off beyond the loaded 3 dB corner frequency which is consistent with the accepted phase noise model of the oscillator. The demonstrated oscillator gain shows how oscillators can be used in non-traditional roles such as active filters or amplifiers. As an oscillator has gain within a determinable bandwidth and an injection-locked oscillator has the same output power as an identical oscillator operated free-running, on-chip inductor coupling can easily be measured using oscillators. The design, implementation, and measurements of a unique experimental test chip and PCB for measuring on-chip inductor coupling easily and accurately are presented. The experiment requires no calibration, matching, or probe de-embedding and makes use of an injection-locked bipolar oscillator acting as a transmitter and a free-running bipolar oscillator behaving as a receiver. | Format: Paperback | Language/Sprache: english | 136 pp.



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