



Modulated Frequency Synthesizers

By Kang-Chun Peng

VDM Verlag Feb 2009, 2009. Taschenbuch. Book Condition: Neu. 220x150x7 mm. This item is printed on demand - Print on Demand Neuware - This book presents a wideband GFSK-modulated fractional-N frequency synthesizer which using the two-point delta-sigma modulation (TPDSM). Two bottlenecks in this design have been rigorously investigated. One is the nonlinear performance of fractional-N frequency synthesizers. The other one is the inherent gain and delay mismatch between the two modulation points. Both nonlinear and mismatch factors dominate the modulation accuracy in the closed phase-locked loop (PLL). The proposed formulation can successfully predict the dependencies of the modulation accuracy on both factors. The comparison of the averaged frequency deviation and frequency-shift-keying (FSK) error between theory and measurement shows excellent agreement. The modulated frequency synthesizer implemented in this study can achieve a 2.5 Mbps data rate as well as a 15 s PLL stable time with only 2.2 % FSK error under good design and operating conditions. 116 pp. Englisch.



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