

1. Record Nr.	UNINA9910139746003321
Autore	Egan William F. <1936->
Titolo	Advanced Frequency Synthesis by Phase Lock // William F. Egan
Pubbl/distr/stampa	Hoboken, New Jersey : , : Wiley, , c2011 [Piscataqay, New Jersey] : , : IEEE Xplore, , [2011]
ISBN	1-283-33753-3 9786613337535 1-118-17115-2
Descrizione fisica	1 online resource (314 p.)
Classificazione	TEC008010
Disciplina	621.3815486
Soggetti	Frequency synthesizers Phase-locked loops
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Frontmatter -- Introduction -- Fractional-N and Basic S? Synthesizers -- Other Spurious Reduction Techniques -- Defects in S? Synthesizers -- Other S? Architectures -- Simulation -- Diophantine Synthesizer -- Operation at Extreme Bandwidths -- All-Digital Frequency Synthesizers -- Appendix A: All Digital -- Appendix C: Fractional Cancellation -- Appendix E: Excess PPSD -- Appendix F: References to -- Appendix G: Using Gsmpl -- Appendix H: Sample-and-Hold Circuit -- Appendix L: Loop Response -- Appendix M: Mash PPSD -- Appendix N: Sampled Noise -- Appendix O: Oscillator Spectrums -- Appendix P: Phase Detectors -- Appendix Q: Quantization PPSD -- Appendix R: Reference Frequency Spurs -- Appendix S: Spectrum Analysis -- Appendix T: Toolboxes -- Appendix U: Noise Produced by Charge Pump Current Unbalance (Mismatch) -- Appendix W: Getting Files from the Wiley Internet Site -- Appendix X: Some Tables -- End Notes -- References -- Index.
Sommario/riassunto	"An addendum to the popular Frequency Synthesis by Phase Lock, 2nd ed, this book describes sigma-delta, a frequency synthesis technique that has gained prominence in recent years. In addition, Simulink will be employed extensively to guide the reader. Fractional-n, the still-used forerunner to sigma-delta, is also discussed. Sequences of

simulated results allow the reader to gain a deeper understanding while detailed appendices provide information from various stages of development. Simulation models discussed in the chapters that are available online"--Provided by publisher.
