

1. Record Nr.	UNINA9910830143903321
Autore	Egan William F
Titolo	Phase-lock basics // by William F. Egan
Pubbl/distr/stampa	Hoboken, New Jersey : , : John Wiley, , 2008 [Piscataqay, New Jersey] : , : IEEE Xplore, , 2008
ISBN	1-281-09415-3 9786611094157 0-470-17873-6 0-470-17871-X
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (473 p.)
Disciplina	621.3815364
Soggetti	Phase-locked loops Electrical & Computer Engineering Engineering & Applied Sciences Electrical Engineering
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 (p. 423-427) and index.
Nota di contenuto	Pt. 1. Phase Lock Without Noise. -- 1. Introduction (p. 3) -- 2. The Basic Loop (p. 15) -- 3. Loop Components (p. 29) -- 4. Loop Response (p. 59) -- 5. Loop Stability (p. 71) -- 6. Transient Response (p. 87) -- 7. Modulation Response (p. 111) -- 8. Acquisition (p. 137) -- 9. Acquisition Aids (p. 171) -- 10. Applications a Extensions (p. 189) -- Pt. 2. Phase Lock in Noise. -- 11. Phase Modulation By Noise (p. 233) -- 12. Response to Phase Noise (p. 251) -- 13. Representation of Additive Noise (p. 271) -- 14. Loop Response to Additive Noise (p. 287) -- 15. Phase-Locked Loop as a Demodulator (p. 297) -- 16. Parameter Variation Due to Noise (p. 319) -- 17. Cycle Skipping Due to Noise (p. 335) -- 18. Nonlinear Operation in a Locked Loop (p. 359) -- 19. Acquisition Aids in the Presence of Noise (p. 377) -- 20. Bandlimited Noise (p. 395) -- 21. Further Information (p. 415)
Sommario/riassunto	Broad-based and hands-on, Phase-Lock Basics, Second Edition is both easy to understand and easy to customize. The text can be used as a theoretical introduction for graduate students or, when used with

MATLAB simulation software, the book becomes a virtual laboratory for working professionals who want to improve their understanding of the design process and apply it to the demands of specific situations. This second edition features a large body of new statistical data obtained from simulations and uses available experimental data for confirmation of the simulation results.
