1. Record Nr. UNINA9911019214903321 Autore Gardner Floyd Martin <1929-> **Titolo** Phaselock techniques / / Floyd M. Gardner Pubbl/distr/stampa Hoboken, NJ,: John Wiley, 2005 **ISBN** 9786610277315 9781280277313 1280277319 9780471732693 0471732699 9780471732686 0471732680 Edizione [3rd ed.] Descrizione fisica 1 online resource (449 p.) 621.3815/364 Disciplina Soggetti 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 PHASELOCK TECHNIQUES: CONTENTS: PREFACE; NOTATION: 1 INTRODUCTION: 1.1 Salient Properties of PLLs; 1.1.1 Bandwidth; 1.1.2 Linearity: 1.2 Organization of the Book: 1.3 Annotated Bibliography: 1.3.1 Books; 1.3.2 Reprint Volumes; 1.3.3 Journal Special Issues; 2 TRANSFER FUNCTIONS OF ANALOG PLLs: 2.1 Basic Transfer Functions: 2.1.1 Transfer Functions of Individual Elements; 2.1.2 Combined Transfer Functions; 2.1.3 Characteristic Equation; 2.1.4 Nomenclature, Coefficients, and Units; 2.2 Second-Order PLLs; 2.2.1 Loop Filters; 2.2.2 Order and Type; 2.2.3 Loop Parameters; 2.2.4 Frequency Response 2.3 Other Loop Types and Orders2.3.1 General Definition of Loop Gain

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Sommario/riassunto

A greatly revised and expanded account of phaselock technologyThe Third Edition of this landmark book presents new developments in the field of phaselock loops, some of which have never been published until now. Established concepts are reviewed critically and recommendations are offered for improved formulations. The work reflects the author's own research and many years of hands-on experience with phaselock loops.Reflecting the myriad of phaselock loops that are now found in electronic devices such as televisions, computers, radios, and cell phones, the book offers readers mu