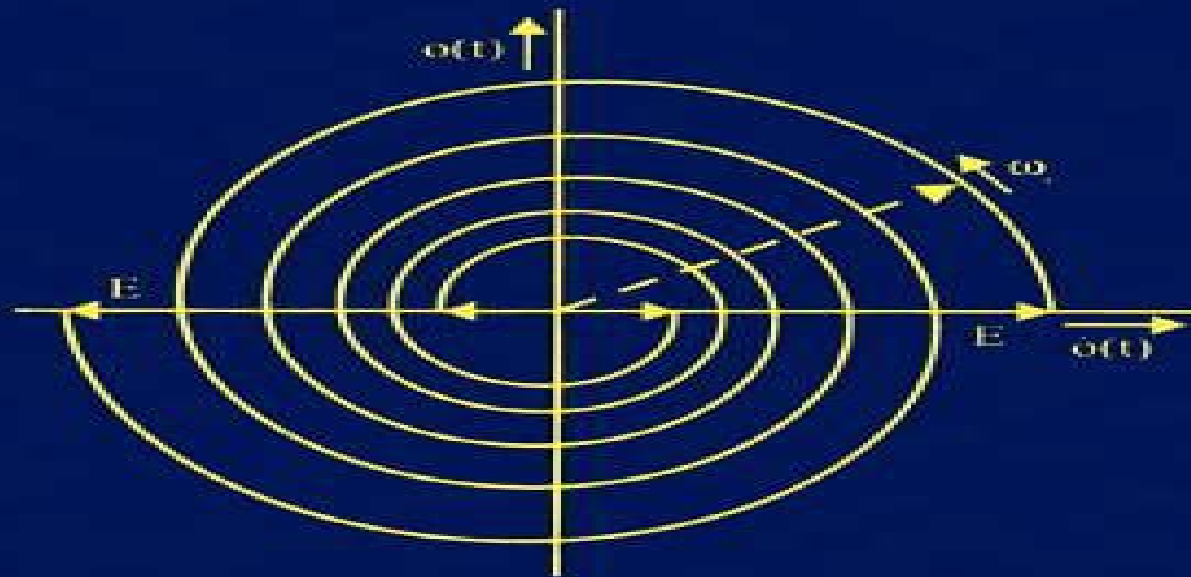


Oscillators and Oscillator Systems

Classification, Analysis and Synthesis



Jan R. Westra
Chris J.M. Verhoeven
Arthur H.M. van Roermund

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first time a comprehensive text devoted to a very important and timely approach to analog circuit design **Low-Power Design Techniques and CAD Tools for Analog and RF Integrated Circuits** Piet Wambacq, Georges Gielen, John Gerrits, 2007-05-08 This unique book provides an overview of the current state of the art and very recent research results that have been achieved as part of the Low Power Initiative of the European Union in the field of analogue RF and mixed signal design methodologies and CAD tools *Dierct Sensor-to-Microcontroler Interface Circuits* Ferran Reverter, Ramón Pallás Areny, 2005-11-18 This book describes the design and characterisation of interface circuits for the direct connection of sensors with a time based output signal to a microcontroller The topics analysed are a the performance of microcontrollers in timing signals b the susceptibility of IC quasi digital sensors to supply voltage changes and c the performance of direct modulating sensor to microcontroller interfaces based on measuring the charging discharging time of a RC circuit The authors analyse the features and limitations of these interface circuits and offer design rules and guidelines for improving their performance This book interests designers of microcontrollers and IC sensors which can apply the theoretical models developed herein to predict and reduce the effects of power supply interference It also interests electronic circuit designers which can apply the test circuits measurement methods and design rules to their own designs Finally the book being the result of doctoral thesis it may inspire other researchers to engage in gaining further insight in some of the topics considered and help them in learning a systematic approach to hypothesis formulation and testing Wideband FM Techniques for Low-Power Wireless Communications John F.M. Gerrits, 2022-09-01 Ultra Wideband UWB communications are poised to enable short range applications such as remote health monitoring e health and home or office automation Sensor networks are also suitable candidates for UWB since the low radiated power of the UWB transmitter enables low DC power consumption yielding long battery life and the possibility to use energy scavenging Size and cost constraints require a low complexity approach that allows multiple users to share the same RF bandwidth and offers robustness to interference frequency selective multipath and antenna mismatch Wideband FM Techniques for Low Power Wireless Communications presents research and applications that have taken place in UWB Communications over the past years This book is being published posthumously in agreement with the authors former colleagues from both the Swiss Center for Electronics and Microtechnology CSEM and Delft University of Technology in The Netherlands Proceedings of the ... IEEE Instrumentation and Measurement Technology Conference ,2004 **American Book Publishing Record** ,2000 **The British National Bibliography** Arthur James Wells, 2000 **Applied Mechanics Reviews** ,1987 **U.S. Government Research Reports** ,1964 Scientific and Technical Aerospace Reports ,1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **Technical Abstract Bulletin** Defense Documentation Center (U.S.), 1964 *Government-wide Index to Federal Research & Development Reports* ,1967-07 *Information Processing Journal* ,1963

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