# THE NOISY OSCILLATOR

Random Mass, Frequency, Damping

Moshe Gitterman

Second Edition



# **The Noisy Oscillator**

M. Gitterman

# **The Noisy Oscillator:**

Noisy Oscillator, The: Random Mass, Frequency, Damping (2nd Edition) Moshe Gitterman, 2012-12-18 The properties of the harmonic oscillator with random frequency or and random damping formed the content of the first edition The second edition includes hundreds of publications on this subject since 2005 The noisy oscillator continues to be the subject of intensive studies in physics chemistry biology and social sciences The new and the latest type of a stochastic oscillator has also been considered namely an oscillator with random mass Such model describes among other phenomena Brownian motion with adhesion where the molecules of the surrounding medium not only randomly collide but also stick to the Brownian particle for some random time thereby changing its mass This edition contains two new chapters eight new sections and an expanded bibliography A wide group of researchers students and teachers will benefit from this book

The Noisy Oscillator M. Gitterman, 2005 Stochastic Processes Fluctuation Phenomena Classical Statistical Mechanics Oscillator Brownian Motion Stochastic Resonance Multiplicative Noise The Noisy Oscillator M. Gitterman, 2005 Stochastic Processes Fluctuation Phenomena Classical Statistical Mechanics Oscillator Brownian Motion Stochastic Noisy Oscillator, The: The First Hundred Years, From Einstein Until Now Moshe Resonance Multiplicative Noise Gitterman, 2005-11-09 This book contains comprehensive descriptions of stochastic processes described by underdamped and overdamped oscillator equations with additive and multiplicative random forcing The latter is associated with random frequency or random damping The coverage includes descriptions of various new phenomena discovered in the last hundred years since the explanation of Brownian motion by Einstein Smoluchovski and Langevin such as the shift of stable points noise enhanced stability stochastic resonance resonant activation and stabilization of metastable states In addition to many applications in physics chemistry biology medicine economics and sociology these discoveries have clarified the deep relationship between determinism and stochasticity which turns out to be complimentary rather than contradictory with noise playing both constructive and destructive roles **The Design of Low Noise Oscillators** Ali Hajimiri, Thomas H. Lee, 2007-05-08 It is hardly a revelation to note that wireless and mobile communications have grown tremendously during the last few years This growth has placed stringent requi ments on channel spacing and by implication on the phase noise of oscillators C pounding the challenge has been a recent drive toward implementations of transceivers in CMOS whose inferior 1 f noise performance has usually been thought to disqualify it from use in all but the lowest performance oscillators Low noise oscillators are also highly desired in the digital world of course The c tinued drive toward higher clock frequencies translates into a demand for ev decreasing jitter Clearly there is a need for a deep understanding of the fundamental mechanisms g erning the process by which device substrate and supply noise turn into jitter and phase noise Existing models generally offer only qualitative insights however and it has not always been clear why they are not quantitatively correct

Noise in Nonlinear Dynamical Systems Frank Moss, P. V. E. McClintock, 1989-04-06 A specially written review of all

areas of noise and nonlinear in natural environments Oscillators and Oscillator Systems Jan R. Westra, Chris J.M. Verhoeven, Arthur H.M. van Roermund, 2013-04-17 In many electronic systems such as telecommunication or measurement systems oscillations play an essential role in the information processing Each electronic system poses different requirements on these oscillations depending on the type and performance level of that specific system It is the designer s challenge to find the specifications for the desired oscillation and to implement an electronic circuit meeting these specifications As the desired oscillations have to fulfill many requirements the design process can become very complex To find an optimal solution the designer requires a design methodology that is preferably completely top down oriented To achieve such a methodology it must be assured that each property of the system can be optimized independently of all other properties Oscillators and Oscillator Systems Classification Analysis and Synthesis takes a systematic approach to the design of high performance oscillators and oscillator systems A fundamental classification of oscillators based on their internal timing references forms the basis of this approach The classification enables the designer to make strategic design decisions at a high hierarchical level of the design process Techniques derived from the systematic approach are supplied to the designer to enable him or her to bring the performance of the system as close as possible to the fundamental limits Oscillators and Oscillator Systems Classification Analysis and Synthesis is an excellent reference for researchers and circuit designers and may be used as a text for advanced courses on the topic The Design of Modern Microwave Oscillators for Wireless **Applications** Ulrich L. Rohde, Ajay K. Poddar, Georg Böck, 2005-05-27 Delivering the best possible solution for phase noise and outputpower efficiency in oscillators This complete and thorough analysis of microwave oscillators investigates all aspects of design with particular emphasis onoperating conditions choice of resonators and transistors phasenoise and output power It covers both bipolar transistors and FETs Following the authors guidance readers learn how to designmicrowave oscillators and VCOs that can be tuned over a very widefrequency range yet have good phase noise are low cost and are small in size All the essential topics in oscillator design and development are covered including Device and resonator technology Study of noise sources Analysis methods Design calculation and optimization methodologies Practical design of single and coupled oscillators While most of the current literature in the field concentrates onclassic design strategies based on measurements simulation and optimization of output power and phase noise this text offers aunique approach that focuses on the complete understanding of the design process. The material demonstrates important design rulesstarting with the selection of best oscillator topology choice of transistors and complete phase noise analysis that leads tooptimum performance of all relevant oscillator features Alsoincluded are CMOS oscillators which recently have become importantin cellular applications For readers interested in specialized applications and topics a full chapter provides all the necessaryreferences. The contents of the text fall into two major categories Chapters 1 through 9 deal with a very detailed and expandedsingle resonator oscillator including a thorough treatment of bothnonlinear analysis and phase noise Chapters

10 and 11 use the knowledge obtained and apply it tomultiple coupled oscillators synchronized oscillators. This text is partially based on research sponsored by the DefenseAdvanced Research Projects Agency DARPA and the United StatesArmy and conducted by Synergy Microwave Corporation With thewealth of information provided for the analysis and practical design of single and synchronized low noise microwave oscillators it is recommended reading for all RF microwave engineers Inaddition the text s comprehensive step by step approach makes itan excellent graduate level textbook **Designer's Guide to High-Purity Oscillators** Emad Eldin Hegazi, Jacob Rael, Asad Abidi, 2006-07-18 try to predict it using mathematical expressions His heuristic model without mathematical proof is almost universally accepted However it entails a c cuit specific noise factor that is not known a priori and so is not predictive In this work we attempt to address the topic of oscillator design from a diff ent perspective By introducing a new paradigm that accurately captures the subtleties of phase noise we try to answer the question why do oscillators behave in a particular way and what can be done to build an optimum design It is also hoped that the paradigm is useful in other areas of circuit design such as frequency synthesis and clock recovery In Chapter 1 a general introduction and motivation to the subject is presented Chapter 2 summarizes the fundamentals of phase noise and timing jitter and discusses earlier works on oscillator's phase noise analysis Chapter 3 and Chapter 4 analyze the physical mechanisms behind phase noise generation in current biased and Colpitts oscillators Chapter 5 discusses design trade offs and new techniques in LC oscillator design that allows optimal design Chapter 6 and Chapter 7 discuss a topic that is typically ignored in oscillator design That is flicker noise in LC oscillators Finally Chapter 8 is dedicated to the complete analysis of the role of varactors both in tuning and AM FM noise conversion Noise. Oscillators and Algebraic Randomness Michel Planat, 2008-01-11 Noise is ubiquitous in nature and in man made systems Noise in oscillators perturbs high technology devices such as time standards or digital communication systems The understanding of its algebraic structure is thus of vital importance. The book addresses both the measurement methods and the understanding of quantum 1 f and phase noise in systems such as electronic amplifiers oscillators and receivers trapped ions cosmic ray showers and in commercial applications A strong link between 1 f noise and number theory is emphasized The twenty papers in the book are comprehensive versions of talks presented at a school in Chapelle des Bois Jura France held from April 6 to 10 1999 by engineers physisicts and mathematicians

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