

The Noisy Oscillator

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, physicists and mathematicians.

Noise Analysis of Radio Frequency Circuits Amit Mehrotra 2004

Predicting noise in RF systems at the design stage is extremely important. This book concentrates on developing noise simulation techniques for RF circuits. The authors present a novel approach of performing noise analysis for RF circuits.

Training Manual United States. Army. Signal Corps 1924

The Noisy Oscillator M. Gitterman 2005 Stochastic Processes; Fluctuation Phenomena; Classical Statistical Mechanics; Oscillator; Brownian Motion; Stochastic Resonance; Multiplicative Noise.

Noisy Oscillator, The: The First Hundred Years, From Einstein

Until Now Moshe 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.

Training Manual United States. War Dept 1924

Noise, Oscillators and Algebraic Randomness Michel Planat 2000-07-06

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, physicists and mathematicians.

Low Phase Noise Microwave Oscillator Design Robert G. Rogers 1991 Treats oscillators as the sum of two circuit elements: the active circuit element (including the transistor) and the frequency-determining resonant circuit element. This book provides step-by-step procedures for designing each element in isolation and then combining them to produce the oscillator.

Bibliography of Scientific and Industrial Reports 1965-07

Radio Operator: Students manual for all arms. Radio sets United States. Army. Signal Corps 1924

Oscillator And Pendulum With A Random Mass Moshe Gitterman

2015-01-05 Stochastic descriptions of a harmonic oscillator can be obtained by adding additive noise, or/and three types of multiplicative noise: random frequency, random damping and random mass. The first three types of noise were intensively studied in many published articles. In this book the fourth case, that of random mass, is considered in the context of the harmonic oscillator and its immediate nonlinear generalization — the pendulum. To our knowledge it is the first book fully dedicated to this problem. Two interrelated methods, the Langevin equation and the Fokker-Planck equations, as well as the Lyapunov stability method are used for the mathematical analysis. After a short introduction, the two main parts of the book describe the different properties of the random harmonic oscillator and the random pendulum with random masses. As an example, the stochastic resonance is studied, where the noise plays an unusual role, increasing the applied weak periodic signal, and also the vibration resonance in dynamic systems, where the role of noise is played by the second high-frequency periodic signal. First and second averaged moments have been calculated for a system with different types of additive and multiplicative noises, which define the stability of a system. The calculations have been extended to two multiplicative noises and to quadratic noise. This book is useful for students and scientists working in different fields of statistical physics.

Proceedings of the IRE. 1923

The Noisy Oscillator M. Gitterman 2005 Stochastic Processes; Fluctuation Phenomena; Classical Statistical Mechanics; Oscillator; Brownian Motion; Stochastic Resonance; Multiplicative Noise
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 Design of Low Noise Oscillators Ali Hajimiri 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 requirements on channel spacing and, by implication, on the phase noise of oscillators. Compounding 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 continued drive toward higher clock frequencies translates into a demand for ever-decreasing jitter. Clearly, there is a need for a deep understanding of the fundamental mechanisms governing 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.

Ninth International Conference on Noise in Physical Systems

Carolyn M. Van Vliet 1987

Noise in High-Frequency Circuits and Oscillators Burkhard Schiek 2006-07-14 A classroom-tested book addressing key issues of electrical noise This book examines noise phenomena in linear and nonlinear high-frequency circuits from both qualitative and quantitative perspectives. The authors explore important noise mechanisms using equivalent sources and analytical and numerical methods. Readers learn how to manage electrical noise to improve the sensitivity and resolution of communication, navigation, measurement, and other electronic systems. Noise in High-Frequency Circuits and Oscillators has its origins in a university course taught by the authors. As a result, it is thoroughly classroom-tested and carefully structured to facilitate learning. Readers are given a solid foundation in the basics that allows them to proceed to

more advanced and sophisticated themes such as computer-aided noise simulation of high-frequency circuits. Following a discussion of mathematical and system-oriented fundamentals, the book covers: * Noise of linear one- and two-ports * Measurement of noise parameters * Noise of diodes and transistors * Parametric circuits * Noise in nonlinear circuits * Noise in oscillators * Quantization noise Each chapter contains a set of numerical and analytical problems that enable readers to apply their newfound knowledge to real-world problems. Solutions are provided in the appendices. With their many years of classroom experience, the authors have designed a book that is ideal for graduate students in engineering and physics. It also addresses key issues and points to solutions for engineers working in the burgeoning satellite and wireless communications industries.

A Study of Noise in Transportation Equipment Kent Edward Wooldridge 1926

Summary Technical Report of Division 6 [sub-surface Warfare] NRDC: Basic methods for the calibration of sonar equipment United States. Office of Scientific Research and Development. National Defense Research Committee 1946

Phase Noise and Frequency Stability in Oscillators Enrico Rubiola 2010-06-10 Presenting a comprehensive account of oscillator phase noise and frequency stability, this practical text is both mathematically rigorous and accessible. An in-depth treatment of the noise mechanism is given, describing the oscillator as a physical system, and showing that simple general laws govern the stability of a large variety of oscillators differing in technology and frequency range. Inevitably, special attention is given to amplifiers, resonators, delay lines, feedback, and flicker (1/f) noise. The reverse engineering of oscillators based on phase-noise spectra is also covered, and end-of-chapter exercises are given. Uniquely, numerous practical examples are presented, including case studies taken from laboratory prototypes and commercial oscillators, which allow the oscillator internal design to be understood by analyzing its phase-noise spectrum. Based on tutorials given by the author at the Jet Propulsion Laboratory, international IEEE meetings, and in industry, this is a useful

reference for academic researchers, industry practitioners, and graduate students in RF engineering and communications engineering.

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