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This text provides a comprehensive overview of noise theory in linear and nonlinear circuits and serves as a practical guide for engineers designing circuits where noise is a significant factor. Features include: A practical approach to the design of noise circuits; Graphical representations of noise quantities

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1) minimum noise temperature Unified Theory of Linear Noisy Two-Ports Noise Theory of Linear and Nonlinear Circuits, Hardcover by Engberg J.; Larsen, T., ISBN 047194825X, ISBN-13 9780471948254, Brand New, Free shipping Noise theory is continuing to gain momentum as a leading in the field are proving increasingly important to theelectronics ...

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noise theory is phrased in terms familiar to the dectrical or electronics engineer, in which he states his problems and presents the solutions 10). Voltage and current, impedance and admittance are the concepts, frequency analysis and Fourier transforms are the methods used to attack noise problems. Also new

~~On the theory of linear noisy systems - Pure~~

A later version of the theory by Norbert Weiner added a 7th concept ('feedback') which changed the model from a linear to cyclical model. ... One of the key goals for people who use this theory is to identify the causes of noise and try to minimize them to improve the quality of the message.

~~Shannon Weaver Model of Communication | 7 Key Concepts (2020)~~

Dear colleagues! The idea to publish Scientific Journal devoted to theory and practice of controlling noise and vibration under the aegis of the famous Baltic State Technical University 'VOENMECH' named after D.F. Ustinov was stated by the participants of the Fifth All-Russian research and practical conference with international participation 'Excessive noise and vibration protection ...

~~Home page - - Noise Theory and Practice~~

In statistics and control theory, Kalman filtering, also known as linear quadratic estimation (LQE), is an algorithm that uses a series of measurements observed over time, containing statistical noise and other inaccuracies, and produces estimates of unknown variables that tend to be more accurate than those based on a single measurement alone, by estimating a joint probability distribution over the variables for each timeframe.

~~Kalman filter - Wikipedia~~

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In the microwave tube case, however, the findings were based heavily upon the physical nature of the electron beam, and it was not immediately clear that a general theory of noise performance for any linear amplifier could be made without referring again to some detailed physical mechanism.

~~Circuit Theory of Linear Noisy Networks (The MIT Press ...~~

LINEAR MODELS Polynomial Curve Fitting Example. Continuous signal x(t) is modeled as a polynomial of degree p?1 in additive noise: x(t) = ? 1 +? 2t+···+? ptp?1 +w(t). Suppose that we are given {x(t n)}N?1 n=0. De?ne x = [x(t 0),...,x(t N?1)] T w = [w(t 0),...,w(t N?1)] T ? = [? 1,...,? p]T H = 1 t 0 ··· t p?1 0 1 t 1 ··· t p?1.. 1

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a linear dynamic system excited by independent or uncorrelated random signals ("white noise"). This is a standard trick in the engineering applications of the Wiener theory [2–7]. The approach taken here differs from the conventional one only in the way in which linear dynamic systems are described. We shall

~~A New Approach to Linear Filtering and Prediction Problems~~

A linear noise-removal filter will usually blur those features; a non-linear filter may give more satisfactory results (even if the blurry image may be more "correct" in the information-theoretic sense). Many nonlinear noise-removal filters operate in the time domain.

Noise theory is continuing to gain momentum as a leading topic. Developments in the field are proving increasingly important to the electronics engineer or researcher specialising in communications and microwave engineering. This text provides a comprehensive overview of noise theory in linear and nonlinear circuits and serves as a practical guide for engineers designing circuits where noise is a significant factor. Features include: A practical approach to the design of noise circuits Graphical representations of noise quantities Definition of all noise quantities for both active and passive circuits Formulae for the conversion of different sets of noise parameters Equations derived for the overall noise parameters of embedded noisy networks Determination of Volterra transfer functions of nonlinear multi-port networks containing multi-dimensional nonlinearities Analysis of noise theory in nonlinear networks based on the multi-port Volterra-series approach Presenting material currently only available in the primary literature, this book serves as an invaluable reference source for advanced students, academics and researchers in the fields of electronics and microwave engineering. The comprehensive coverage will also appeal to communications and microwave engineers in industry.

Based on the author's own research, this book rigorously and systematically develops the theory of Gaussian white noise measures on Hilbert spaces to provide a comprehensive account of nonlinear filtering theory. Covers Markov processes, cylinder and quasi-cylinder probabilities and conditional expectation as well as prediction0n and smoothing and the varied processes used in filtering. Especially useful for electronic engineers and mathematical statisticians for explaining the systematic use of finely additive white noise theory leading to a more simplified and direct presentation.

Linear and Non-Linear System Theory focuses on the basics of linear and non-linear systems, optimal control and optimal estimation with an objective to understand the basics of state space approach linear and non-linear systems and its analysis thereof. Divided into eight chapters, materials cover an introduction to the advanced topics in the field of linear and non-linear systems, optimal control and estimation supported by mathematical tools, detailed case studies and numerical and exercise problems. This book is aimed at senior undergraduate and graduate students in electrical, instrumentation, electronics, chemical, control engineering and other allied branches of engineering. Features Covers both linear and non-linear system theory Explores state feedback control and state estimator concepts Discusses non-linear systems and phase plane analysis Includes non-linear system stability and bifurcation behaviour Elaborates optimal control and estimation

Overcome the effects of noise to push the level of circuit performance with this practical reference. Thoroughly explaining the theory of noise in high-frequency circuits, the book focuses on the real-world problems noise creates. It provides you with a full understanding of methods for analyzing and minimizing noise in linear and nonlinear circuits. The book pays special attention to phase noise in oscillators, offering you a comprehensive and accessible treatment of this critical topic. Additionally, this authoritative volume examines noise in low-noise amplifiers, mixers, and frequency multipliers.

The ultimate handbook on microwave circuit design with CAD. Full of tips and insights from seasoned industry veterans, Microwave Circuit Design offers practical, proven advice on improving the design quality of microwave passive and active circuits-while cutting costs and time. Covering all levels of microwave circuit design from the elementary to the very advanced, the book systematically presents computer-aided methods for linear and nonlinear designs used in the design and manufacture of microwave amplifiers, oscillators, and mixers. Using the newest CAD tools, the book shows how to design transistor and diode circuits, and also details CAD's usefulness in microwave integrated circuit (MIC) and monolithic microwave integrated circuit (MMIC) technology. Applications of nonlinear SPICE programs, now available for microwave CAD, are described. State-of-the-art coverage includes microwave transistors (HEMTs, MODFETs, MESFETs, HBTs, and more), high-power amplifier design, oscillator design including feedback topologies, phase noise and examples, and more. The techniques presented are illustrated with several MMIC designs, including a wideband amplifier, a low-noise amplifier, and an MMIC mixer. This unique, one-stop handbook also features a major case study of an actual anticollision radar transceiver, which is compared in detail against CAD predictions; examples of actual circuit designs with photographs of completed circuits; and tables of design formulae.

Learn the basics of white noise theory with White Noise Distribution Theory. This book covers the mathematical foundation and key applications of white noise theory without requiring advanced knowledge in this area. This instructive text specifically focuses on relevant application topics such as integral kernel operators, Fourier transforms, Laplacian operators, white noise integration, Feynman integrals, and positive generalized functions. Extremely well-written by one of the field's leading researchers, White Noise Distribution Theory is destined to become the definitive introductory resource on this challenging topic.