

Advanced Signal Processing and Digital Noise Reduction

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This book will be of interest primarily to individuals involved with areas of noise control that involve a great deal of signal analysis - such as active noise control. It is a mathematical treatment of a number of topics related to signal processing. An introduction to signal processing is the first topic in the book; the material includes the sampling and quantization of signals. Then follows chapters on a number of topics related to signal processing. These include stochastic processes, Bayesian estimation and classification, hidden Markov models, Weiner filters, Kalman and adaptive least-squared error filters, linear prediction models, power spectrum estimation, interpolation, impulsive noise, transient noise, echo cancellation, and blind deconvolution and channel equalization.