



## Robust Filtering for Uncertain Systems A Parameter-Dependent Approach Communications and Control Engineering

By Huijun Gao

Springer. Hardcover. Condition: New. 253 pages. Dimensions: 9.2in. x 6.3in. x 0.8in. This monograph provides the reader with a systematic treatment of robust filter design, a key issue in systems, control and signal processing, because of the fact that the inevitable presence of uncertainty in system and signal models often degrades the filtering performance and may even cause instability. The methods described are therefore not subject to the rigorous assumptions of traditional Kalman filtering. The monograph is concerned with robust filtering for various dynamical systems with parametric uncertainties and focuses on parameter-dependent approaches to filter design. Classical filtering schemes, like  $H_2$  filtering and  $H$  filtering, are addressed and emerging issues such as robust filtering with constraints on communication channels and signal frequency characteristics are discussed. The text features: design approaches to robust filters arranged according to varying complexity level and emphasizing robust filtering in the parameter-dependent framework for the first time; guidance on the use of special realistic phenomena or factors to describe problems more accurately and to improve filtering performance; a unified linear matrix inequality formulation of design approaches for easy and effective filter design; demonstration of the techniques of matrix decoupling technique, the generalized Kalman-Yakubovich-Popov lemma, the free weighting...



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