

Ian R. Petersen  
Andrey M. Savkin

# Robust Kalman Filtering for Signals and Systems with Large Uncertainties

# Robust Kalman Filtering For Signals And Systems With Large Uncertainties

**Society for Industrial and Applied  
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## **Robust Kalman Filtering For Signals And Systems With Large Uncertainties:**

**Robust Kalman Filtering for Signals and Systems with Large Uncertainties** Ian R. Petersen, Andrey V. Savkin, 2012-12-06 A significant shortcoming of the state space control theory that emerged in the 1960s was its lack of concern for the issue of robustness. However, in the design of feedback control systems, robustness is a critical issue. These facts led to great activity in the research area of robust control theory. One of the major developments of modern control theory was the Kalman Filter, and hence the development of a robust version of the Kalman Filter has become an active area of research. Although the issue of robustness in filtering is not as critical as in feedback control, where there is always the issue of instability, research on robust filtering and state estimation has remained very active in recent years. However, although numerous books have appeared on the topic of Kalman filtering, this book is one of the first to appear on robust Kalman filtering. Most of the material presented in this book derives from a period of research collaboration between the authors from 1992 to 1994. However, its origins go back earlier than that. The first author, I.R.P., became interested in problems of robust filtering through his research collaboration with Dr. Duncan McFarlane. At this time, Dr. McFarlane was employed at the Melbourne Research Laboratories of BHP Ltd, a large Australian minerals resources and steel processing company.

**Control of Uncertain Systems: Modelling, Approximation, and Design** Bruce A. Francis, 2006-03-07 This Festschrift contains a collection of articles by friends, co-authors, colleagues, and former Ph.D. students of Keith Glover, Professor of Engineering at the University of Cambridge, on the occasion of his sixtieth birthday. Professor Glover's scientific work spans a wide variety of topics, the main themes being system identification, model reduction and approximation, robust controller synthesis, and control of aircraft and engines. The articles in this volume are a tribute to Professor Glover's seminal work in these areas.

*FMCW-Radarsignalverarbeitung zur Entfernungsmessung mit hoher Genauigkeit* Scherr, Steffen, 2017-03-06 Distance measurements with micrometer accuracies are essential for the control of industrial machines. This work investigates the maximum possible accuracy of FMCW radar systems which use an additional phase evaluation. The feasibility of the developed techniques is shown in different industrial applications. An accuracy better than 1 m is demonstrated in measurements.

**Computational Methods in Physics** Simon Širca, Martin Horvat, 2025-04-01 This textbook provides a compendium of numerical methods to assist physics students and researchers in their daily work. It carefully considers error estimates, stability, and convergence issues, the choice of optimal methods and techniques to increase program execution speeds. The book supplies numerous examples throughout the chapters that are concluded by more comprehensive problems with a strong physics background. Instead of uncritically employing modern black box tools, the readers are encouraged to develop a more ponderous and skeptical approach. This revised and expanded edition now includes a new chapter on numerical integration and stable differentiation, as well as fresh material on optimal filtering, integration of gravitational many body problems, computation of Poincaré maps, regularization of orbits, singular Sturm

Liouville problems techniques for time evolution and spatial treatment of semi infinite domains in spectral methods and phase retrieval It also brings updated discussions of algebraic problems involving sparse matrices and of high resolution schemes for partial differential equations

**Proceedings of the 2015 Chinese Intelligent Automation Conference**  
 Zhidong Deng,Hongbo Li,2015-04-07 Proceedings of the 2015 Chinese Intelligent Automation Conference presents selected research papers from the CIAC 15 held in Fuzhou China The topics include adaptive control fuzzy control neural network based control knowledge based control hybrid intelligent control learning control evolutionary mechanism based control multi sensor integration failure diagnosis reconfigurable control etc Engineers and researchers from academia industry and the government can gain valuable insights into interdisciplinary solutions in the field of intelligent automation

System Identification (SYSID '03) Paul Van Den Hof,Bo Wahlberg,Siep Weiland,2004-06-29 The scope of the symposium covers all major aspects of system identification experimental modelling signal processing and adaptive control ranging from theoretical methodological and scientific developments to a large variety of engineering application areas It is the intention of the organizers to promote SYSID 2003 as a meeting place where scientists and engineers from several research communities can meet to discuss issues related to these areas Relevant topics for the symposium program include Identification of linear and multivariable systems identification of nonlinear systems including neural networks identification of hybrid and distributed systems Identification for control experimental modelling in process control vibration and modal analysis model validation monitoring and fault detection signal processing and communication parameter estimation and inverse modelling statistical analysis and uncertainty bounding adaptive control and data based controller tuning learning data mining and Bayesian approaches sequential Monte Carlo methods including particle filtering applications in process control systems motion control systems robotics aerospace systems bioengineering and medical systems physical measurement systems automotive systems econometrics transportation and communication systems Provides the latest research on System Identification Contains contributions written by experts in the field Part of the IFAC Proceedings Series which provides a comprehensive overview of the major topics in control engineering

Advances in Integrated Design and Production Abdelmjid Saka,Jean-Yves Choley,Jamel Louati,Zakaria Chalh,Maher Barkallah,Mohammed Alfid, Mounir Ben Amar,Fakher Chaari,Mohamed Haddar,2020-11-26 This book reports on innovative concepts and practical solutions at the intersection between engineering design engineering production and industrial management It covers cutting edge design modeling and control of dynamic and multiphysics systems knowledge management systems in industry 4 0 cyber physical production systems additive and sustainable manufacturing and many other related topics The original carefully selected peer reviewed chapters highlight collaborative works between different countries and between industry and universities thus offering a timely snapshot for the research and industrial communities alike as well as a bridge to facilitate communication and collaboration

*Radar Technology* Guy Kouemou,2010-01-01 In this book Radar Technology the chapters are divided

into four main topic areas Topic area 1 Radar Systems consists of chapters which treat whole radar systems environment and target functional chain Topic area 2 Radar Applications shows various applications of radar systems including meteorological radars ground penetrating radars and glaciology Topic area 3 Radar Functional Chain and Signal Processing describes several aspects of the radar signal processing From parameter extraction target detection over tracking and classification technologies Topic area 4 Radar Subsystems and Components consists of design technology of radar subsystem components like antenna design or waveform design Total Least Squares and Errors-in-Variables Modeling S. van Huffel,P.

Lemmerling,2013-03-14 In response to a growing interest in Total Least Squares TLS and Errors In Variables EIV modeling by researchers and practitioners well known experts from several disciplines were invited to prepare an overview paper and present it at the third international workshop on TLS and EIV modeling held in Leuven Belgium August 27 29 2001 These invited papers representing two thirds of the book together with a selection of other presented contributions yield a complete overview of the main scientific achievements since 1996 in TLS and Errors In Variables modeling In this way the book nicely completes two earlier books on TLS SIAM 1991 and 1997 Not only computational issues but also statistical numerical algebraic properties are described as well as many new generalizations and applications Being aware of the growing interest in these techniques it is a strong belief that this book will aid and stimulate users to apply the new techniques and models correctly to their own practical problems Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen ,1996

**SIAM Journal on Control and Optimization** Society for Industrial and Applied Mathematics,2003 **Robust Linear Filter Design Via LMIs and Controller Design with Actuator Saturation Via SOS Programming** Kunpeng Sun,2004 **Defense Transformation and Network-centric Systems** ,2007

*Proceedings* ,2004 **Mobisys 2004** ,2004 Proceedings of the ... IEEE International Conference on Control Applications ,2005 **Lecture series** ,2002 Verzeichnis lieferbarer Bücher ,2002 Who's who in Australia ,2007  
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