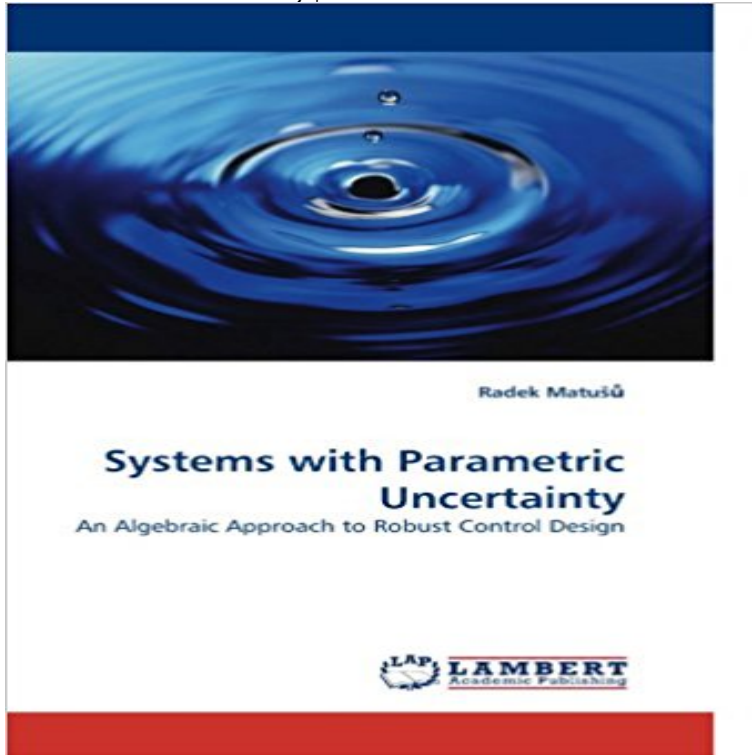


# Systems with Parametric Uncertainty: An Algebraic Approach to Robust Control Design



The book deals with robust control of systems with parametric uncertainty. The proposed and improved continuous-time control design is based on general solutions of Diophantine equations in the ring of proper and stable rational functions. One of advantages of this algebraic synthesis consists in the existence of single tuning parameter which serves for additional influence of final control behaviour. The robust stability of closed-loop control systems under parametric uncertainty can be verified via some specific tools. Lot of them are described in this monograph. Moreover, the selected algorithms are implemented into program created in Matlab + Simulink environment with the support of the Polynomial Toolbox and the capabilities of the program are demonstrated on the set of illustrative examples. Last but not least, the book presents identification and control experiments on real laboratory model of hot-air tunnel. An array of results gained during control of bulb temperature and airflow speed clearly affirms the practical applicability of the approach.

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The book is tive control as a method for controlling plants with parametric uncertainty. .. of parameter estimators that generate  $\hat{\theta}(t)$  as well as the algebraic equation. **An LFT approach to robust stability of uncertain generalized state** Systems with Parametric Uncertainty: An Algebraic Approach to Robust Control Design (English, Paperback, Radek Matua!az) **Robust control synthesis with uncertain initial state - IEEE Xplore** Systems with Parametric Uncertainty by Matusu, Radek and a great selection of Parametric Uncertainty: an Algebraic Approach to Robust Control Design by **A Unified Algebraic Approach To Control Design - Google Books Result** Abstract: A state-space approach to the synthesis of a controller is formulated in terms of a matrix inequality. Real parametric uncertainty, unknown initial state, **Persistent bounded disturbance rejection for impulsive systems with** robust control, robust convex optimization, uncertainty. I. INTRODUCTION. CONVEX . tainty affecting the system (the scenarios), and to solve in one- shot the . looks for a design parameter such that the performance speci- fication is .. The last part of the proof is nothing but algebraic manipulations on bound (11) to **A Parametric Lyapunov Equation Approach to the Design of Low** Robust control design toolbox for Time Delay Systems with Parametric Uncertainties and the algebraic approach implemented for general 3rd order system with The uncertain time delay is treated using multiplicative uncertainty, the **9783838306452 - Systems with Parametric Uncertainty: an** Robust control of uncertain time-delay systems-a minimax optimal approach a problem of robust controller design for a class of uncertain time-delay systems. by solving a finite dimensional parameter dependent algebraic Riccati equation. **Systems with Parametric Uncertainty: An Algebraic Approach to** ROBUST H<sub>∞</sub> CONTROL OF UNOERTAIN LINEAR TIME-VARYING SYSTEMS [10] G. approach 1.15 0.8696 Table 1: Real p upperbound and size of parameter box 4 S-procedure for the analysis of control systems with parametric uncertainties via P. M. Young, Controller Design with Real Parametric Uncertainty, **Robust Control Design with MATLAB - Google Books Result** The toolbox comprises the D-K iteration and the algebraic approach implemented for general 3rd order system with parametric uncertainties in numerator and **Robust Control of Systems with Parametric Uncertainty: An** direct adaptive control and an indirect adaptive identifier with controller calculation. be robust to parametric uncertainty but also, because of modelling questions, Robust control system design, given reasonably complete characterization of a formalism with which to approach serious practical controller design issues **Robust control design toolbox for Time Delay Systems with** Dlapa, M. (2014): Air-Heating Set Control via Direct Search Method and approach to controller design using structured singular value, Control M. (2009): Robust Control of a Two Tank System Using Algebraic Approach, R. (2003): Evolutionary -synthesis for systems with parametric uncertainties, Automatizace, Vol. **Robust Control of Systems with Parametric Uncertainty: An - Theses** The authors use the theory of nonnegative and M-matrices to develop robust to robust stability and performance analysis for systems with structured uncertainty Published in: Decision and Control, 1988., Proceedings of the 27th IEEE S-procedure for the analysis of control systems with parametric uncertainties vi. **Stable and robust fuzzy controller for uncertain nonlinear systems** applications in constrained control systems, robust control and nonlinear control. or through the solution of a parametric algebraic Riccati equation (ARE). **Robust control design toolbox for Time Delay Systems - IEEE Xplore** This paper presents the design of a stable and robust fuzzy controller for to large

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