



# Control of Uncertain Systems: A Linear Programming Approach

*Munther A. Dahleh, Ignacio J. Diaz-Bobillo*

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In tackling the problem of robust controller design from a unique perspective, this volume brings together three branches of mathematics: operator theory, optimization theory, and algebraic theory of rational matrix functions. Together, these techniques enable readers to capture the fundamental limitations of design in a quantitative way, and provide computable methods for analysis and synthesis of control systems. Content is presented rigorously -- with intuitive explanations of the results and examples that highlight the utility of those results. **KEY TOPICS:** Formulates general design problems that involve time-domain specification, and bounded, but persistent, disturbances. Surveys the background, problem definitions and set-up, parametrization of controllers and closed loop maps, and a general robustness set-up, all for MIMO systems. Presents a very powerful theory in optimization -- duality theory. Explains the detailed solution of the synthesis problem -- with an emphasis is on  $l_1$  performance and robustness. Includes many examples. For engineers involved in robust controller design.

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