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book introduces the algebraic Riccati equation technique to solve additive/multiplicative norm-bounded controller/filter gain uncertainty, and proposes a structured vertex separator to deal with the numerical problem resulting from interval-bounded coefficient variations. It also explains how to design insensitive controllers and filters in the framework of coefficient sensitivity theory. Throughout, the book includes numerical examples to demonstrate the effectiveness of the proposed design methods. More Effective Design Methods for Non-Fragile Controllers and Filters The design and analysis tools described will help readers to better understand and analyze parameter uncertainties and to design more effective non-fragile controllers and filters. Providing a coherent approach, this book is a valuable reference for researchers, graduate students, and anyone who wants to explore the area of non-fragile control and filtering.

True Digital Control: Statistical Modelling andNon–Minimal State Space Designdevelops a true digitalcontrol design philosophy that encompasses data–basedmodel identification, through to control algorithm design,robustness evaluation and implementation. With a heritage from bothclassical and modern control system synthesis, this book issupported by detailed practical examples based on theauthors' research into environmental, mechatronic and roboticsystems. Treatment of both statistical modelling and control designunder one cover is unusual and highlights the important connectionsbetween these disciplines. Starting from the ubiquitous proportional–integralcontroller, and with essential concepts such as pole assignmentintroduced using straightforward algebra and block diagrams, thisbook addresses the needs of those students, researchers andengineers, who would like to advance their knowledge of controltheory and practice into the state space domain; and academics whoare interested to learn more about non–minimal state variablefeedback control systems. Such non–minimal state feedback isutilised as a unifying framework for generalised digital controlsystem design. This approach provides a gentle learning curve, fromwhich potentially difficult topics, such as optimal, stochastic andmultivariable control, can be introduced and assimilated in aninteresting and straightforward manner. Key features: Covers both system identification and control systemdesign in a unified manner Includes practical design case studies and simulationexamples Considers recent research into time–variable andstate–dependent parameter modelling and control, essentialelements of adaptive and nonlinear control system design, and thedelta–operator (the discrete–time equivalent of thedifferential operator) systems Accompanied by a website hosting MATLAB examples True Digital Control: Statistical Modelling andNon–Minimal State Space Design is a comprehensive andpractical guide for students and professionals who wish to furthertheir knowledge in the areas of modern control and systemidentification.

For both undergraduate and graduate courses in Control System Design. Using a "how to do it" approach with a strong emphasis on real-world design, this text provides comprehensive, single-source coverage of the full spectrum of control system design. Each of the text's 8 parts covers an area in control--ranging from signals and systems (Bode Diagrams, Root Locus, etc.), to SISO control (including PID and Fundamental Design Trade-Offs) and MIMO systems (including Constraints, MPC, Decoupling, etc.).