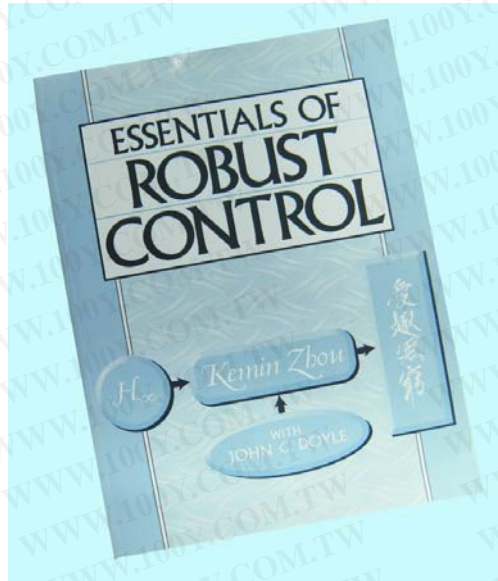


Essentials of Robust Control



SUMMARY

Based upon the popular Robust and Optimal Control by Zhou, et al. (PH, 1996), this book offers a streamlined approach to robust control that reflects the most recent topics and developments in the field.

Features Cover State of the Art topics , including

- Gap Metric.
- V-gap metric
- Model validation
- Real μ .

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- * Offers the essentials of both Robust and H_∞ control suitable for a graduate course or self study
- * Adopts a self-contained approach, including detailed proof and development of each topic.
- * Incorporates MATLAB tools accompanied by step-by-step illustrations through the book to execute computations.
- * Supports discussions with numerous diagrams and figures.
- * Guides readers through a wealth of worked examples depicting step by step development.
- * Provides highlights of key results at the beginning of the book.
- * Constructs a strong pedagogical framework in each chapter, including...

- Guidelines for selecting topics.
- Chapter Highlights.
- Lists of key terms and symbols.
- End of Chapter notes.
- Exercises.

Also features more than 50 illustrative examples, 95 figures and 150 exercise problems.

Chapter 1 : Introduction

Chapter 2 : Linear Algebra

Chapter 3 : Linear Systems

Chapter 4 : H_2 & H_∞ Spaces

Chapter 5 : Internal Stability

Chapter 6 : Performance Specifications and Limitations

Chapter 7 : Balanced Model Reduction

Chapter 8 : Uncertainty & Robustness

Chapter 9 : Linear Fractional Transformation

Chapter 10 : μ and μ - Synthesis

Chapter 11 : Controller parameterization

Chapter 12 : Algebraic Riccati equations

Chapter 13 : H_2 Optimal Control

Chapter 14: H_∞ Control

Chapter 15 : Controller Reduction

Chapter 16 : H_∞ Loop Shaping

Chapter 17 : Gap Metric and v -Gap Metric

Chapter 18 : Miscellaneous Topics

Bibliography

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