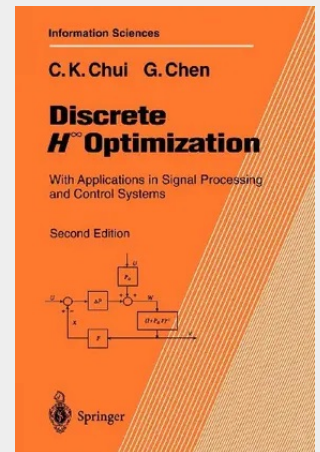


Discrete H_∞ Optimization

With Applications in Signal Processing and Control Systems

Discrete H_∞ Optimization is concerned with the study of H_∞ optimization for digital signal processing and discrete-time control systems. The first three chapters present the basic theory and standard methods in digital filtering and systems from the frequency-domain approach, followed by a discussion of the general theory of approximation in Hardy spaces. AAK theory is introduced, first for finite-rank operators and then more generally, before being extended to the multi-input/multi-output setting. This mathematically rigorous book is self-contained and suitable for self-study. The advanced mathematical results derived here are applicable to digital control systems and digital filtering.

This book discusses in detail H_∞ optimization for digital signal processing and discrete-time control systems. The rigorous derivations of the results, many examples and the discussion of research problems, together with the fact that it is self-contained, make it suitable for self-study. It provides readers with sufficient background in the subject to enable them to begin research in this field.



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