



# **Robust Controller Design Using Normalized Coprime Factor Plant Descriptions (Lecture Notes in Control and Information Sciences)**

*Duncan C. McFarlane, Keith Glover*

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This monograph concerns the design of feedback controllers for multivariable linear dynamic systems. The particular approach is to consider a coprime factor description of the plant's transfer function and to represent a family of systems by perturbing the numerator and denominator. The design of controllers to robustly stabilize such a family is posed as an  $H^\infty$  optimization problem and some explicit solutions are obtained. Similarly, procedures for reduced order modelling and controller design are derived. Finally, the results are exploited to give a systematic loop shaping control system design procedure that is assessed on several aerospace examples. The book will be appropriate for advanced undergraduate or graduate classes requiring only a first course in state-space methods. It also gives a good introduction to multivariable control and the use of  $H^\infty$  methods.

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