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STOCHASTIC CONTROL SYNTHESIS OF SYSTEMS WITH STRUCTURED UNCERTAINTY



Stochastic Control Synthesis of Systems with Structured Uncertainty

NASA Technical Reports Server (NTRS), Sharon L. Padula, Luis G. Crespo BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 34 pages. Dimensions: 9.7in. x 7.4in. x 0.1in.This paper presents a study on the design of robust controllers by using random variables to model structured uncertainty for both SISO and MIMO feedback systems. Once the parameter uncertainty is prescribed with probability density functions, its effects are propagated through the analysis leading to stochastic metrics for the systems output. Control designs that aim for satisfactory performances while guaranteeing robust...

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