



Control of Uncertain Systems: Proceedings of an International Workshop Bremen, West Germany, June 1989

By Hinrichsen

Birkhauser. Paperback. Book Condition: New. Paperback. 345 pages. Dimensions: 9.0in. x 6.0in. x 0.8in. Invoking the machinery of Control Theory to control a real-world plant means, on the basis of available a priori knowledge of the plant, designing selecting a feasible controller accomplishing the control objective. A priori knowledge about the plant is normally represented as a mathematical model, given by physical laws or measurement data. Such a model is inevitably uncertain, due to measurement errors, simplified models of natural laws, neglected dynamics, and the desire to get a model tractable for further computations. Control of Uncertain Systems is therefore an important issue, both practically and philosophically. Basically, two different approaches exist: Adaptive Control and Robust Control. On four beautiful summer days in June 1989, researchers from 12 countries gathered together in Bremen, West Germany, for a workshop devoted to these issues. 49 talks, invited and contributed, were presented. The present work collects 18 of these talks. (Program and original abstracts from the workshop are available as Report 209, Institute for Dynamical System.) The papers represent a broad scope of current trends in robust and adaptive control. Topics covered include: New directions in adaptive control, stability analysis...



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