

Topics in Control Theory



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TOPICS IN CONTROL THEORY

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Birkhäuser Okt 2012, 2012. Taschenbuch. Book Condition: Neu. 0x0x cm. This item is printed on demand - Print on Demand Neuware - One of the key concerns in modern control theory is the design of steering strategies. The implementation of such strategies is done by a regulator. Presented here is a self-contained introduction to the mathematical background of this type of regulator design. The topics selected address the matter of greatest interest to the control community, at present, namely, when the design objective is the reduction of the influence of exogeneous disturbances upon the output of the system. In a first scenario the disturbance signal is regarded as a deterministic time series with known dynamics but unknown parameters. The design objective is then the asymptotic disturbance compensation. In a second scenario, no information about the disturbance signal is available apart from some bounds. Here, in an H-approach, control strategies are worked out which will prove efficient for all such disturbances. The intention of this book is to present ideas and methods on such a level that the beginning graduate student will be able to follow current research. New results are included, especially for nonlinear control systems, and as a service to the reader, an extensive appendix presents topics from linear algebra, invariant manifolds and calculus of variations, information which is hardly to be found in standard textbooks. Contents: Introduction The problem of output regulation Introduction Problem statement Output regulation via full information Output regulation via full error feedback A particular case Well-posedness and robustness The construction of a robust regulator Disturbance attenuation via H-methods Introduction Problem statement A characterization of the L2-gain of a linear system Disturbance attenuation via full information Disturbance attenuation via measured feedback Full information regulators Problem statement Time-dependent control strategies Examples Time-independent control strategies The local...



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