Optimal Design of Generalized Multiple Model Adaptive Controllers

By Thomas E. Brehm

Biblioscholar Nov 2012, 2012. Taschenbuch. Book Condition: Neu. 246x189x18 mm. This item is printed on demand - Print on Demand Neuware - Advanced analysis and optimal design techniques that achieve performance improvement for multiple model adaptive control (MMAC) and multiple model adaptive estimation (MMAE) based control are developed and tested for this dissertation research. An adjunct area of research yielded modified linear quadratic Gaussian (LQG) control design techniques that also can be applied to nonadaptive control. For the Modified LQG (MLQG) controller, the proposed designs remove the assumption that the Kalman filter as the observer and the controller gain matrix design are necessarily based on the same model as the best system model. The filter and controller gain matrices are both determined by models possibly other than the system model. 300 pp. Englisch.

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