

Decentralized Control and Filtering in Interconnected Dynamical Systems



Magdi S. Mahmoud



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Based on the countless approaches available for coping with large-level systems (LSS), *Decentralized Control and Filtering in Interconnected Dynamical Systems* supplies a rigorous framework to get studying the analysis, balance, and control problems of LSS. He addresses the dominating sources of difficulties due to dimensionality, information framework constraints, uncertainties, and period delays. Drawing attention to key issues, the text is backed by proofs, efficient computational strategies, end-of-chapter problems, and around 1,300 equations. It traces the progress of research along three eras: Fundamental era where the fundamental conceptual frameworks, major suggestions, and operational methodologies are laid down Contemporary era in which several of the workable strategies and methods are established and put on many software areas Advanced era where different high-level schemes and configurations are being developed to meet accelerated technological advancements Concentrating on robust, reliable, and/or resilient decentralized design methods based on linear matrix inequalities framework, the writer offers ideas for improvements to current techniques. Providing an overall assessment of LSS theories, it addresses model order decrease, parametric uncertainties, time delays, and control estimator gain perturbations. Taking visitors on a guided tour through LSS, the reserve examines recent trends and approaches and evaluations past methods and outcomes from a modern perspective.



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