

Modeling and Control Dynamic Sensor Networks (Automation and Control Engineering)



With case studies and examples, this book presents the performance modeling strategies and control algorithms required for the design and use of large wireless sensor networks. The authors provide an integrated framework that blends concepts from engineering, computer science, and operation research. They cover modeling wireless sensor networks, measurement processes, designing wireless sensor networks for guaranteed performance, and dynamic control of wireless sensor networks to achieve performance metrics. The book also presents numerous applications, including defense applications such as undersea surveillance, automated de-mining, search and rescue, and pursuit evasion games.

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