

Advanced Mechatronics

Monitoring and Control of
Spatially Distributed Systems

Dan Neculescu

Advanced Mechatronics Monitoring And Control Of Spatially Distributed Systems

PT Brinkman



Advanced Mechatronics Monitoring And Control Of Spatially Distributed Systems:

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Advanced Mechatronics: Monitoring And Control Of Spatially Distributed Systems Dan S Neculescu, 2008-11-06 This unique book extends mechatronics to spatially distributed systems Issues regarding remote measurements and indirect monitoring and control of distributed systems is presented in the general framework of the recently developed ill posed inverse problems The book starts with an overview of the main results in the inverse problem theory and continues with the presentation of basic results in discrete inverse theory The second part presents various forward and inverse problems resulting from modeling monitoring and controlling mechanical acoustic fluid and thermal systems Finally indirect and remote monitoring and control issues are analyzed as cases of ill posed inverse problems Numerous numerical examples illustrate current approaches used for solving practical inverse problems

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