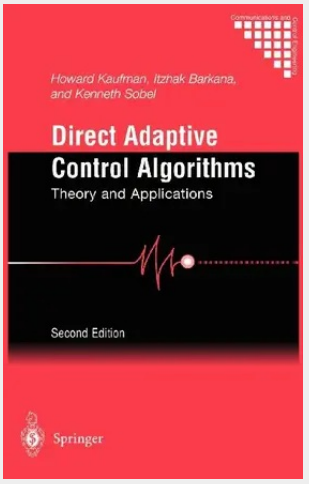
Kaufman / Barkana / Sobel

Direct Adaptive Control Algorithms

Theory and Applications

Suitable either as a reference for practicing engineers or as a text for a graduate course in adaptive control systems, this book is a self -contained compendium of readily implementable adaptive control algorithms that have been developed and applied by the authors for over fifteen years. These algorithms, which do not require the user to identify the process parameters explicitly, have been successfully applied to a wide variety of engineering problems including flexible structure control, blood pressure control, and robotics; they are suitable for a wide variety of multiple input-output control systems with uncertainity and external disturbances. The text is intended to enable anyone with knowledge of basic linear multivariable systems to adapt the algorithms to problems in a wide variety of disciplines. Thus, in addition to developing the theoretical details of the algorithms presented, the text gives considerable emphasis to design of algorithms and to representative applications in flight control, flexible structure control, robotics, and drug-infusion control. Engineers can thus use and test these algorithms in practical problems. This second edition has been corrected and updated throughout. It makes use of MATLAB programs for some of the illustrative examples; these programs are described in the text and can be obtained from the MathWorks file server.

Suitable either as a reference or as a graduate-level text in adaptive control systems, the text is a self-contained compendium of adaptive control algorithms readily implementable with regard to a wide variety of engineering problems, developed and applied by the authors for over fifteen years. Corrected and updated throughout, the second edition also includes a diskette with MATLAB programs to run some of the illustrative examples.



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