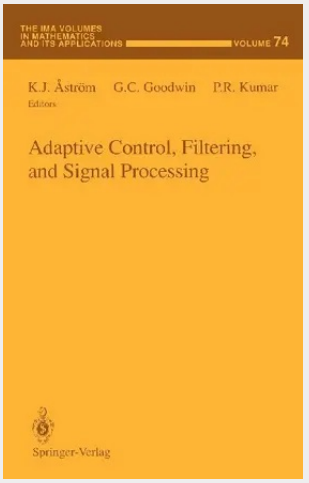
Aström / Goodwin / Kumar

Adaptive Control, Filtering, and Signal Processing

The area of adaptive systems, which encompasses recursive identification, adaptive control, filtering, and signal processing, has been one of the most active areas of the past decade. Since adaptive controllers are fundamentally nonlinear controllers which are applied to nominally linear, possibly stochastic and time-varying systems, their theoretical analysis is usually very difficult. Nevertheless, over the past decade much fundamental progress has been made on some key questions concerning their stability, convergence, performance, and robustness. Moreover, adaptive controllers have been successfully employed in numerous practical applications, and have even entered the marketplace.

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160,49 €
149,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9780387979885
Medium: Buch
ISBN: 978-0-387-97988-5
Verlag: Springer US
Erscheinungstermin: 27.04.1995
Sprache(n): Englisch
Auflage: 1. Auflage 1995
Serie: The IMA Volumes in Mathematics and its Applications
Produktform: Gebunden
Gewicht: 1690 g
Seiten: 396
Format (B x H): 160 x 241 mm

Kundenservice Verlag Dr. Otto Schmidt KG
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)