

Rao, Ganti Prasada

Piecewise constant orthogonal functions and their application to systems and control. (English) Zbl 0518.93003

Lecture Notes in Control and Information Sciences, 55. Berlin etc.: Springer-Verlag. VIII, 254 p. DM 41.00; \$ 16.30 (1983).

For a scan of this review see the [web version](#).

MSC:

- 93-02 Research exposition (monographs, survey articles) pertaining to systems and control theory
- 33C45 Orthogonal polynomials and functions of hypergeometric type (Jacobi, Laguerre, Hermite, Askey scheme, etc.)
- 93C35 Multivariable systems, multidimensional control systems
- 42C10 Fourier series in special orthogonal functions (Legendre polynomials, Walsh functions, etc.)
- 44A45 Classical operational calculus
- 34K35 Control problems for functional-differential equations
- 93C05 Linear systems in control theory
- 93C10 Nonlinear systems in control theory
- 93C15 Control/observation systems governed by ordinary differential equations
- 93B30 System identification
- 93B40 Computational methods in systems theory (MSC2010)
- 93C20 Control/observation systems governed by partial differential equations

Cited in **42** Documents

Keywords:

parameter estimation; system identification; Walsh functions; Rademacher functions; Haar functions; block pulse functions; piecewise constant orthogonal functions; operational matrix of integration; operational matrices of differentiation; algorithms