



Time-Varying Discrete Linear Systems: Input-Output Operators. Riccati Equations. Disturbance Attenuation (Operator Theory: Advances and Applications)

Aristide Halanay, Vlad Ionescu

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Discrete-time systems arise as a matter of course in modelling biological or economic processes. For systems and control theory they are of major importance, particularly in connection with digital control applications. If sampling is performed in order to control periodic processes, almost periodic systems are obtained. This is a strong motivation to investigate the discrete-time systems with time-varying coefficients. This research monograph contains a study of discrete-time nodes, the discrete counterpart of the theory elaborated by Bart, Gohberg and Kaashoek for the continuous case, discrete-time Lyapunov and Riccati equations, discrete-time Hamiltonian systems in connection with input-output operators and associated Hankel and Toeplitz operators. All these tools aim to solve the problems of stabilization and attenuation of disturbances in the framework of H_2 - and H_∞ -control theory. The book is the first of its kind to be devoted to these topics and consists mainly of original, recently obtained results.

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