

Contents

1	Count Riccati and the Early Days of the Riccati Equation <i>S. Bittanti</i>	1
2	Solutions of the Continuous and Discrete Time Algebraic Riccati Equations: A Review <i>P. Lancaster, L. Rodman</i>	11
3	Algebraic Riccati Equation: Hermitian and Definite Solutions <i>V. Kucera</i>	53
4	A Geometric View of the Matrix Riccati Equation <i>A. Shayman</i>	89
5	The Geometry of the Matrix Riccati Equation and Associated Eigenvalue Methods <i>C. Martin, G. Ammar</i>	113
6	The Periodic Riccati Equation <i>S. Bittanti, P. Colaneri, G. De Nicolao</i>	127
7	Invariant Subspace Methods for the Numerical Solution of Riccati Equations <i>A. J. Laub</i>	163
8	The Dissipation Inequality and the Algebraic Riccati Equation <i>H. L. Trentelman, J. C. Willems</i>	197
9	The Infinite Horizon and the Receding Horizon LQ-Problems with Partial Stabilization Constraints <i>J. L. Willems, F. M. Callier</i>	243
10	Riccati Difference and Differential Equations: Convergence, Monotonicity and Stability <i>R. R. Bitmead, M. Gevers</i>	263
11	Generalized Riccati Equation in Dynamic Games <i>T. Basar</i>	293
	Subject Index	335