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APPENDICES (*These can be viewed on the accompanying CD-ROM or at:*
<http://www.prenhall.com/goodwin.>)

A NOTATION, SYMBOLS, AND ACRONYMS

B SMITH–MCMILLAN FORMS

B.1	Introduction
B.2	Polynomial Matrices
B.3	Smith Form for Polynomial Matrices
B.4	Smith–McMillan Form for Rational Matrices
B.5	Poles and Zeros
B.6	Matrix Fraction Descriptions (MFD)

C RESULTS FROM ANALYTIC FUNCTION THEORY

C.1	Introduction
C.2	Independence of Path
C.3	Simply Connected Domains

- C.4 Functions of a Complex Variable
- C.5 Derivatives and Differentials
- C.6 Analytic Functions
- C.7 Integrals Revisited
- C.8 Poisson and Jensen Integral Formulas
- C.9 Application of the Poisson–Jensen Formula to Certain Rational Functions
- C.10 Bode’s Theorems

D PROPERTIES OF CONTINUOUS-TIME RICCATI EQUATIONS

- D.1 Solutions of the CTDRE
- D.2 Solutions of the CTARE
- D.3 The stabilizing solution of the CTARE
- D.4 Convergence of Solutions of the CTARE to the Stabilizing Solution of the CTARE
- D.5 Duality between Linear Quadratic Regulator and Optimal Linear Filter

E MATLAB SUPPORT