

Book Announcements

SPANIER, J., Claremont Graduate School, and **OLDHAM, K.**, Trent University, *An Atlas of Functions*, Hemisphere Publishing, New York, 1987, 700 pages, \$150.

Contents: The constant function c . The factorial function $n!$ and its reciprocal. The linear function $bx + c$ and its reciprocal. The cubic function $x^3 + ax^2 + bx + c$ and higher polynomials. The inverse hyperbolic functions. The $\sin(x)$ and $\cos(x)$ functions. The inverse trigonometric functions. Periodic functions. Dawson's integral. The Kummer function $M(a;c;x)$. The Kelvin functions $\text{ber}(x)$, $\text{bei}(x)$, and $\text{kei}(x)$. The Jacobian elliptic functions. Appendix A: Utility algorithms. Appendix B: Some useful data.

PALM, W., University of Rhode Island, *Control Systems Engineering*, Wiley, New York, 1986, 695 pages.

Contents: Introduction. Modeling dynamic systems. System response. Transfer functions and system diagrams. Computer simulation methods. Feedback control systems. Control system design: modeling considerations and alternative structures. The root locus plot. Applications of graphical methods to system design. Digital control systems. Appendices.

LEWIS, F., Georgia Institute of Technology, *Optimal Estimation with an Introduction to Stochastic Control Theory*, Wiley, New York, 1986, 376 pages.

Contents: Classical estimation theory. Discrete-time Kalman filter. Continuous-time Kalman filter. Kalman filter design and implementation. Estimation for nonlinear systems. Stochastic control for state variable systems. Stochastic control for polynomial systems. Appendices. Index.

STENGEL, R., Princeton University, *Stochastic Optimal Control*, Wiley, New York, 1986, 638 pages.

Contents: The mathematics of control and estimation. Optimal trajectories and neighboring-optimal solutions. Optimal state estimation. Stochastic optimal control. Linear multivariable control. Epilogue. Index.

LEWIS, F., Georgia Institute of Technology, *Optimal Control*, Wiley, New York, 1986, 384 pages.

Contents: Static optimization. Optimal control of discrete-time systems. Optimal control of continuous-time systems. Dynamic programming. Optimal control for polynomial systems. Appendices. References. Index.

JETER, M., University of Southern Mississippi, *Mathematical Programming*, Marcel Dekker, New York, 1986, 360 pages.

Contents: An introduction to mathematical programming. Subspaces, matrices, affine sets, cones, convex sets, and the linear programming problem. The primal simplex procedure. Duality and the linear complementarity problem. Other simplex procedures. Network programming. Convex and concave functions. Optimality conditions. Search techniques for unconstrained optimization problems. Penalty function methods.

WHITFORD, R., *Design for Air Combat*, Jane's Publishing, Boston, 1987, 224 pages.

Purpose: This text defines the fundamentals of flight, explaining the requirements underlying combat aircraft from: the emergence of a new threat to project definition, preliminary design, full-scale design, and finally, development. Case histories include the story of the Dassault-Mirage family of aircraft.

Contents: Basic aerodynamics. Design and requirements of combat aircraft. Wing design. Air intakes. Fuselage design. Tailplanes (horizontal stabilizers). Fins (vertical stabilizers). Exhaust nozzles and aft-body shape. Index.

Errata

Re-Examination of Eigenvector Derivatives

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THE following error was made by the AIAA Editorial Department staff in the published paper:

A large block of text, starting with the section entitled Numerical Example on page 581 and ending after the second line on page 583, should be moved to page 586 and inserted just before the Conclusions section.