Excellent

This book is written in such a way that the level of mathematical sophistication builds up from chapter to chapter. It has been reorganized into four parts: basic analysis, analysis of feedback systems, advanced analysis, and nonlinear feedback control. Updated content includes subjects which have proven useful in nonlinear control design in recent years—new in the 3rd edition are: expanded treatment of passivity and passivity-based control; integral control, high-gain feedback, recursive methods, optimal stabilizing control, control Lyapunov functions, and observers. For use as a self-study or reference guide by engineers and applied mathematicians.

Used this for a Nonlinear Control Theory Class. It was a little short on Control Theory (didn't include much adaptive control etc) but has such good coverage of nonlinear stability theory that it is extremely applicable for a Control Theory class. Does a great job explaining complicated ideas, and does a spectacular job providing references for more information.

This book won the IFAC Control Engineering Textbook Prize in 2002, but its greatness can more accurately be established by simply noting that it is used as THE nonlinear controls textbook by many engineering departments.

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