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For a first-year graduate-level course on nonlinear systems. It may also be used for self-study or reference by engineers and applied mathematicians. The text is written to build the level of mathematical sophistication from chapter to chapter. It has been reorganized into four parts: Basic analysis, Analysis of feedback systems, Advanced analysis, and Nonlinear feedback control.

For a first course on nonlinear control that can be taught in one semester ; This book emerges from the award-winning book, Nonlinear Systems, but has a distinctly different mission andorganization. While Nonlinear Systems was intended as a reference and a text on nonlinear system analysis and its application to control, this streamlined book is intended as a text for a first course on nonlinear control. In Nonlinear Control, author Hassan K. Khalil employs a writing style that is intended to make the book accessible to a wider audience without compromising the rigor of the presentation. ; Teaching and Learning Experience This program will provide a better teaching and learning experience-for you and your students. It will help: Provide an Accessible Approach to Nonlinear Control: This streamlined book is intended as a text for a first course on nonlinear control that can be taught in one semester. Support Learning: Over 250 end-of-chapter exercises give students plenty of opportunities to put theory into action.

In this work, the authors present a global perspective on the methods available for analysis and design of non-linear control systems and detail specific applications. They provide a tutorial exposition of the major non-linear systems analysis techniques followed by a discussion of available non-linear design methods.

This introduction to applied nonlinear dynamics and chaos places emphasis on teaching the techniques and ideas that will enable students to take specific dynamical systems and obtain some quantitative information about their behavior. The new edition has been updated and extended throughout, and contains a detailed glossary of terms. From the reviews: "Will serve as one of the most eminent introductions to the geometric theory of dynamical systems." --Monatshefte für Mathematik

This unique book presents an analytical uniform design methodology of continuous-time or discrete-time nonlinear control system design which guarantees desired transient performances in the presence of plant parameter variations and unknown external disturbances. All results are illustrated with numerical simulations, their practical importance is highlighted, and they may be used for real-time control system design in robotics, mechatronics, chemical reactors, electrical and electro-mechanical systems as well as aircraft control systems. The book is easy reading and is suitable for teaching.

This updated and expanded edition of the bestselling textbookprovides a comprehensive introduction to the methods and theory ofnonlinear finite element analysis. New material provides a conciseintroduction to some of the cutting-edge methods that have evolvedin recent years in the field of nonlinear finite element modeling,and includes the extended finite element method (XFEM),multiresolution continuum theory for multiscale microstructures,and dislocation-density-based crystalline plasticity. Nonlinear Finite Elements for Continua and Structures, SecondEdition focuses on the formulation and solution of discreteequations for various classes of problems that are of principalinterest in applications to solid and structural mechanics. Topicscovered include the discretization by finite elements of continua in one dimension and in multi-dimensions; the formulation ofconstitutive equations for nonlinear materials and largedeformations; procedures for the solution of the discreteequations, including considerations of both numerical andmultiscale physical instabilities; and the treatment of structuraland contact-impact problems. Key features: Presents a detailed and rigorous treatment of nonlinear solidmechanics and how it can be implemented in finite elementanalysis Covers many of the material laws used in today's software andresearch Introduces advanced topics in nonlinear finite elementmodelling of continua Introduction of multiresolution continuum theory and XFEM Accompanied by a website hosting a solution manual andMATLAB® and FORTRAN code Nonlinear Finite Elements for Continua and Structures, SecondEdition is a must have textbook for graduate students inmechanical engineering, civil engineering, applied mathematics,engineering mechanics, and materials science, and is also an excellent source of information for researchers and practitioners in industry.

Designed to meet the needs of a wide audience without sacrificing mathematical depth and rigor, Adaptive Control Tutorial presents the design, analysis, and application of a wide variety of algorithms that can be used to manage dynamical systems with unknown parameters. Its tutorial-style presentation of the fundamental techniques and algorithms in adaptive control make it suitable as a textbook. Adaptive Control Tutorial is designed to serve the needs of three distinct groups of readers: engineers and students interested in learning how to design, simulate, and implement parameter estimators and adaptive control schemes without having to fully understand the analytical and technical proofs; graduate students who, in addition to attaining the aforementioned objectives, also want to understand the analysis of simple schemes and get an idea of the steps involved in more complex proofs; and advanced students and researchers who want to study and understand the details of long and technical proofs with an eye toward pursuing research in adaptive control or related topics. The authors achieve these multiple objectives by enriching the book with examples demonstrating the design procedures and basic analysis steps and by detailing their proofs in both an appendix and electronically available supplementary material; online examples are also available. A solution manual for instructors can be obtained by contacting SIAM or the authors. Preface; Acknowledgements; List of Acronyms; Chapter 1: Introduction; Chapter 2: Parametric Models; Chapter 3: Parameter Identification: Continuous Time; Chapter 4: Parameter Identification: Discrete Time; Chapter 5: Continuous-Time Model Reference Adaptive Control; Chapter 6: Continuous-Time Adaptive Pole Placement Control; Chapter 7: Adaptive Control for Discrete-Time Systems; Chapter 8: Adaptive Control of Nonlinear Systems; Appendix; Bibliography; Index

Provides complete coverage of both the Lyapunov and Input-Output stability theories, in a readable, concise manner. * Supplies an introduction to the popular backstepping approach to nonlinear control design * Gives a thorough discussion of the concept of input-to-state stability * Includes a discussion of the fundamentals of feedback linearization and related results. * Details complete coverage of the fundamentals of dissipative system's theory and its application in the so-called L2gain control problem, for the first time in an introductory level textbook. * Contains a thorough discussion of nonlinear observers, a very important problem, not commonly encountered in textbooks at this level. *An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department.

Presented in a tutorial style, this comprehensive treatment unifies, simplifies, and explains most of the techniques for designing and analyzing adaptive control systems. Numerous examples clarify procedures and methods. 1995 edition.