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Recent adaptations of the basic principle have included ways to use adaptive optics to enhance two-photon resolution, as a potential route to endoscopy platforms capable of carrying out deep-brain ...

MIT enhances two-photon imaging to view deep blood vessels

See allHide authors and affiliations Earth's climate system is complex and inherently nonlinear, which can induce some extraneous

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... under different geographic and climate conditions, which control a ...

Organic carbon burial is paced by a ~173-ka obliquity cycle in the middle to high latitudes

With on-chip electrical control of the laser ... integrate lasers and high-Q nonlinear microresonators onto a common silicon wafer. Heterogeneously integrated silicon photonics (19-21) offers a ...

Laser soliton microcombs heterogeneously integrated on silicon

This introduction to the singularly perturbed methods in the nonlinear elliptic partial differential equations emphasises the existence and local uniqueness of solutions exhibiting concentration ...

Singularly Perturbed Methods for Nonlinear Elliptic Problems

This automatable universal data-driven representation of complex nonlinear dynamics complements and expands network connectivity science and promises new fast-track avenues to understand, estimate, ...

Cluster-based network modeling—From snapshots to complex dynamical systems

This one doesn't really have a catchy name, but its designers [Erik Bjerke] and [Björn Pehrsson] call it a Nonlinear Mechatronic ... and a microprocessor to control it all.

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Resistance Is Futile: Balancing Cubes Are Taking Over!

1 The best-known MOF examples include highly nonlinear fibers for octave-spanning supercontinuum ... strength of adhesive bonds has proven very difficult. Our MOFBGs provide a solution to that issue.

Microstructured Fibers: Butterfly microstructured fiber complements FBG-based sensing

It's usually used with a display instrument, recording instrument, and various control systems ... signal is converted and amplified, the nonlinear relationship between temperature and ...

9 Different Types of Sensor Transmitters

Creation of a single-chip analog/hybrid computer reveals that special analog versions of computers could be used to solve complex problems such as nonlinear differential equations. Just recently ...

Should We Bring Back Analog Computers?

Chinese researchers from the Technical Institute of Physics and Chemistry (TIPC) of the Chinese Academy and Sciences (CAS) have proposed a new ...

Green Environment-friendly Micronano 3D Printing of Hydrogel Proposed in Aqueous Phase

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The mathematical models behind GPU-accelerated simulation can show how a number of variables impact the design, including nonlinear static stress ... to optimize for more variables and evolve more ...

How Generative Design Can Harness the Power of GPUs

MONTREAL—ETV Bharat has selected a range of Grass Valley solutions to underpin its upgraded production and editing operations. The new set-up includes the video production and content management tool, ...

ETV Bharat Taps Grass Valley for Upgraded Production Ops

You play as a duo of heroes with unique cards and abilities, there's a nonlinear overworld you have to uncover to progress, and the card game is less designed around deck optimization and more around ...

Steam Link Spotlight - Roguebook

has selected a range of Grass Valley solutions to underpin its upgraded production and editing operations. The new set-up includes the video production and content management tool, GV STRATUS, ...

ETV Bharat selects Grass Valley

Looking to underpin its upgraded production and editing operations, Indian digital national news platform ETV Bharat has selected a range of Grass Valley solutions to

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scale its operations both on ...

ETV Bharat takes Grass Valley to future-proof workflows

and Nonlinear Dynamics Research Center (NDRC). The aim of AU Research Centers is to provide real world solutions and educational training in new emerging fields that would contribute to new ...

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 and organization. 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

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opportunities to put theory into action.

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 over a quarter of a century, high-gain observers have been used extensively in the design of output feedback control of nonlinear systems. This book presents a clear, unified treatment of the theory of high-gain observers and their use in feedback control. Also provided is a discussion of the separation principle for nonlinear systems; this differs from other separation results in the literature in that recovery of stability as well as performance of state feedback controllers is given. The author provides a detailed discussion of applications of high-gain observers to adaptive control and regulation problems and recent results on the extended high-gain observers. In addition, the author addresses two challenges that face the implementation of high-gain observers: high dimension and measurement noise. Low-power observers are presented for high-dimensional systems. The effect of

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measurement noise is characterized and techniques to reduce that effect are presented. The book ends with discussion of digital implementation of the observers. Readers will find comprehensive coverage of the main results on high-gain observers; rigorous, self-contained proofs of all results; and numerous examples that illustrate and provide motivation for the results. The book is intended for engineers and applied mathematicians who design or research feedback control systems.

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 and organization. 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

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semester. Support Learning: Over 250 end-of-chapter exercises give students plenty of opportunities to put theory into action.

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.

There has been much excitement over the emergence of new mathematical techniques for the analysis and control of nonlinear systems. In addition, great technological advances have bolstered the impact of analytic advances and produced many new problems and applications which are nonlinear in an essential way. This book lays out in a concise mathematical framework the tools and methods of analysis which underlie this diversity of applications.

In this work, the authors present a global

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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 practical yet rigorous book provides a development of nonlinear, Lyapunov-based tools and their use in the solution of control-theoretic problems. Rich in motivating examples and new design techniques, the text balances theoretical foundations and real-world implementation.

During the past decade we have had to confront a series of control design problems - involving, primarily, multibody electro-mechanical systems - in which nonlinearity plays an essential role. Fortunately, the geometric theory of non linear control system analysis progressed substantially during the 1980s and 90s, providing crucial conceptual tools that addressed many of our needs. However, as any control systems engineer can attest, issues of modeling, computation, and implementation quickly become the dominant concerns in practice. The problems of interest to us present unique challenges because of the need to build and manipulate complex mathematical models for both the

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plant and controller. As a result, along with colleagues and students, we set out to develop computer algebra tools to facilitate model building, nonlinear control system design, and code generation, the latter for both numerical simulation and real time control implementation. This book is a result, an outgrowth of that continuing effort. As the unique features of the book includes an integrated treatment of nonlinear control and analytical mechanics and a set of symbolic computing software tools for modeling and control system design. By simultaneously considering both mechanics and control we achieve a fuller appreciation of the underlying geometric ideas and constructions that are common to both. Control theory has had a fruitful association with analytical mechanics from its birth in the late 19th century.

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