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Stability Theory of Switched Dynamical Systems
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Transforming Wisdom
Why Leaders Lie
Stochastic Dynamics
Lie Groups, Physics, and Geometry

ANASTASIA DESIREE

Modern Trends in Controlled Stochastic Processes Wipf and Stock Publishers
Describing many of the most important aspects of Lie group theory, this book presents the subject in a 'hands on' way. Rather than concentrating on theorems and proofs, the book shows the applications of the material to physical sciences and applied mathematics. Many examples of Lie groups and Lie algebras are given throughout the text. The relation between Lie group theory and algorithms for solving ordinary differential equations is presented and shown to be analogous to the relation between Galois groups and algorithms for solving polynomial equations. Other chapters are devoted to differential geometry, relativity, electrodynamics, and the hydrogen atom. Problems are given at the end of each chapter so readers can monitor their understanding of the materials. This is a fascinating introduction to Lie groups for graduate and undergraduate students in physics, mathematics and electrical engineering, as well as researchers in these fields.
Job Families Cambridge University Press
This book highlights recent findings in industrial, manufacturing and mechanical engineering, and provides an overview of the state of the art in these fields, mainly in Russia and Eastern Europe. A broad range of topics and issues in modern engineering is discussed, including the dynamics of machines and working processes, friction, wear and lubrication in machines, surface transport and technological machines, manufacturing engineering of industrial facilities, materials engineering, metallurgy, control systems and their industrial applications, industrial mechatronics, automation and robotics. The book gathers selected papers presented at the 7th International Conference on Industrial Engineering (ICIE), held in Sochi, Russia, in May 2021. The authors are experts in various fields of engineering, and all papers have been carefully reviewed. Given its scope, the book will be of interest to a wide readership, including mechanical and production engineers, lecturers in engineering disciplines, and engineering graduates.
Tabbner's Nursing Care - E-Book Springer
Advances in Applied Mechanics
Third Earth Resources Technology Satellite-1 Symposium Oxford University Press
Are you prepared to defend against the ever-evolving threats in the digital world? Cybersecurity isn't just a necessity; it's a race against time and cunning adversaries waiting to exploit any vulnerability. This book stands as your authoritative guide to safeguarding your digital life. In an age where digital security breaches can mean the crippling of personal life or business, understanding and countering cybersecurity threats has never been more critical. From script kiddies to sophisticated nation-state attackers, the spectrum of adversaries is broad and their methods ever-changing. This

comprehensive exploration delves deep into the anatomy of cybersecurity threats, focusing on both external and internal dangers, and the sophisticated tactics of social engineering and malware that jeopardize your private information. With detailed analyses of attack vectors and the landscape of digital threats, the book emphasizes proactive strategies and essential knowledge to stay one step ahead. It not only equips you with the knowledge of what to look out for but also instills the strategic mindset needed to navigate the complexities of cybersecurity. By turning the pages of this essential cybersecurity manual, you equip yourself not only with defensive tactics but with a proactive approach towards securing your digital environment. Understand the landscape, recognize the threats, and fortify your defenses. Pick up your copy today to take control of your cybersecurity and protect your digital future. /The book edited with ProWritingAid/

Lie Groups, Lie Algebras, and Representations University of Pennsylvania Press

This book is intended as an introductory text on the subject of Lie groups and algebras and their role in various fields of mathematics and physics. It is written by and for researchers who are primarily analysts or physicists, not algebraists or geometers. Not that we have eschewed the algebraic and geo metric developments. But we wanted to present them in a concrete way and to show how the subject interacted with physics, geometry, and mechanics. These interactions are, of course, manifold; we have discussed many of them here-in particular, Riemannian geometry, elementary particle physics, sym metries of differential equations, completely integrable Hamiltonian systems, and spontaneous symmetry breaking. Much ofthe material we have treated is standard and widely available; but we have tried to steer a course between the descriptive approach such as found in Gilmore and Wybourne, and the abstract mathematical approach of Helgason or Jacobson. Gilmore and Wybourne address themselves to the physics community whereas Helgason and Jacobson address themselves to the mathematical community. This book is an attempt to synthesize the two points of view and address both audiences simultaneously. We wanted to present the subject in a way which is at once intuitive, geometric, applications oriented, mathematically rigorous, and accessible to students and researchers without an extensive background in physics, algebra, or geometry.

China's Path to Innovation Springer

A rigorous examination of the motivations, sources, obstacles to and consequences of China's drive to become a leading innovative nation.

Cybersecurity National Academies Press

Do the nation's highest officers, including the President, have a right to lie protected by the First Amendment? If not, what can be done to protect the nation under this threat? This book explores the various options.

An Introduction to Lie Groups and Lie Algebras Springer

Three former CIA officers--the world's foremost authorities on recognizing deceptive behavior--share their techniques for spotting a lie with thrilling anecdotes from the

authors' careers in counterintelligence.

Topics in Noncommutative Algebra Harlequin

In this thoroughly innovative work, Hans Ulrich Gumbrecht evokes the year 1926 through explorations of such things as bars, boxing, movie palaces, hunger artists, airplanes, hair gel, bullfighting, film stardom and dance crazes. From the vantage points of Berlin, Buenos Aires, and New York, the reader is allowed multiple itineraries, ultimately becoming immersed in the activities, entertainments, and thought patterns of the citizens of 1926.

Applications of Lie Groups to Differential Equations Cambridge University Press

A vital member of the health care team, the contemporary enrolled nurse faces increasing challenges and an increasing level of responsibility. Written specifically for Australian and New Zealand enrolled nurse students, this long awaited new edition reflects the changes and challenges in contemporary enrolled nurse practice as well as the additions and modifications that are occurring in nursing curricula. Tabbner's Nursing Care: Theory and Practice 5th edition has been written, reviewed and edited by the people who educate the enrolled nurse and continues to provide enrolled nurse students with the most comprehensive resource available.

Creative Research Courier Corporation

This book is devoted to explaining a wide range of applications of con tinuous symmetry groups to physically important systems of differential equations. Emphasis is placed on significant applications of group-theoretic methods, organized so that the applied reader can readily learn the basic computational techniques required for genuine physical problems. The first chapter collects together (but does not prove) those aspects of Lie group theory which are of importance to differential equations. Applications covered in the body of the book include calculation of symmetry groups of differential equations, integration of ordinary differential equations, including special techniques for Euler-Lagrange equations or Hamiltonian systems, differential invariants and construction of equations with pre scribed symmetry groups, group-invariant solutions of partial differential equations, dimensional analysis, and the connections between conservation laws and symmetry groups. Generalizations of the basic symmetry group concept, and applications to conservation laws, integrability conditions, completely integrable systems and soliton equations, and bi-Hamiltonian systems are covered in detail. The exposition is reasonably self-contained, and supplemented by numerous examples of direct physical importance, chosen from classical mechanics, fluid mechanics, elasticity and other applied areas.

A Right to Lie? Springer Science & Business Media

This book is a printed edition of the Special Issue "Hopf Algebras, Quantum Groups and Yang-Baxter Equations" that was published in Axioms

Spy the Lie Springer Science & Business Media

There are three themed parts to this book: values, ethics and emotions in the first part, epistemology,

perception and consciousness in the second part and philosophy of mind and philosophy of language in the third part. Papers in this volume provide links between emotions and values and explore dependency between language, meanings and concepts and topics such as the liar's paradox, reference and metaphor are examined. This book is the second of a two-volume set that originates in papers presented to Professor Kevin Mulligan, covering the subjects that he contributed to during his career. This volume opens with a paper by Moya, who proposes that there is an asymmetrical relation between the possibility of choice and moral responsibility. The first part of this volume ends with a description of foolishness as insensitivity to the values of knowledge, by Engel. Marconi's article makes three negative claims about relative truth and Sundholm notes shortcomings of the English language for epistemology, amongst other papers. This section ends with a discussion of the term 'subjective character' by Nida-Rümelin, who finds it misleading. The third part of this volume contains papers exploring topics such as the mind-body problem, whether theory of mind is based on simulation or theory and Künne shows that the most common analyses of the so-called 'Liar' paradox are wanting. At the end of this section, Rizzi introduces syntactic cartography and illustrates its use in scope-discourse semantics. This second volume contains twenty nine chapters, written by both high profile and upcoming researchers from across Europe, North America and North Africa. The first volume of this set has two main themes: metaphysics, especially truth-making and the notion of explanation and the second theme is the history of philosophy with an emphasis on Austrian philosophy.

In 1926 Harvard University Press

This text introduces upper-level undergraduates to Lie group theory and physical applications. It further illustrates Lie group theory's role in several fields of physics. 1974 edition. Includes 75 figures and 17 tables, exercises and problems.

Publications ... Luniver Press

If you want to outsmart a crook, learn his tricks—Darrell Huff explains exactly how in the classic How to Lie with Statistics. From distorted graphs and biased samples to misleading averages, there are countless statistical dodges that lend cover to anyone with an ax to grind or a product to sell. With abundant examples and illustrations, Darrell Huff's lively and engaging primer clarifies the basic principles of statistics and explains how they're used to present information in honest and not-so-honest ways. Now even more indispensable in our data-driven world than it was when first published, How to Lie with Statistics is the book that generations of readers have relied on to keep from being fooled.

Hopf Algebras, Quantum Groups and Yang-Baxter Equations AVA Publishing

There are plenty of challenging and interesting problems open for investigation in the field of switched systems. Stability issues help to generate many complex nonlinear dynamic behaviors within switched systems. The authors present a thorough investigation of stability effects on three broad classes of switching

mechanism: arbitrary switching where stability represents robustness to unpredictable and undesirable perturbation, constrained switching, including random (within a known stochastic distribution), dwell-time (with a known minimum duration for each subsystem) and autonomously-generated (with a pre-assigned mechanism) switching; and designed switching in which a measurable and freely-assigned switching mechanism contributes to stability by acting as a control input. For each of these classes this book propounds: detailed stability analysis and/or design, related robustness and performance issues, connections to other control problems and many motivating and illustrative examples.

Cartan Geometries and their Symmetries Springer

The polygraph, often portrayed as a magic mind-reading machine, is still controversial among experts, who continue heated debates about its validity as a lie-detecting device. As the nation takes a fresh look at ways to enhance its security, can the polygraph be considered a useful tool? The Polygraph and Lie Detection puts the polygraph itself to the test, reviewing and analyzing data about its use in criminal investigation, employment screening, and counter-intelligence. The book looks at: The theory of how the polygraph works and evidence about how deceptivenessâ€"and other psychological conditionsâ€"affect the physiological responses that the polygraph measures. Empirical evidence on the performance of the polygraph and the success of subjects' countermeasures. The actual use of the polygraph in the arena of national security, including its role in deterring threats to security. The book addresses the difficulties of measuring polygraph accuracy, the usefulness of the technique for aiding interrogation and for deterrence, and includes potential alternativesâ€"such as voice-stress analysis and brain measurement techniques.

Proceedings of the 7th International Conference on Industrial Engineering (ICIE 2021) Springer Science & Business Media

Focusing on the mathematical description of stochastic dynamics in discrete as well as in continuous time, this book investigates such dynamical phenomena as perturbations, bifurcations and chaos. It also introduces new ideas for the exploration of infinite dimensional systems, in particular stochastic partial differential equations. Example applications are presented from biology, chemistry and engineering, while describing numerical treatments of stochastic systems.

Multivariable Technological Systems Springer Science & Business Media

World leading experts give their accounts of the modern mathematical models in the field: Markov Decision Processes, controlled diffusions, piece-wise deterministic processes etc, with a wide range of performance functionals. One of the aims is to give a general view on the state-of-the-art. The authors use Dynamic Programming, Convex Analytic Approach, several numerical methods, index-based approach and so on. Most chapters either contain well developed examples, or are entirely devoted to

the application of the mathematical control theory to real life problems from such fields as Insurance, Portfolio Optimization and Information Transmission. The book will enable researchers, academics and research students to get a sense of novel results, concepts, models, methods, and applications of controlled stochastic processes.

Third Earth Resources Technology Satellite-1 Symposium: Section A-B. Technical presentations Springer

Recent results in the development and application of analysis and design techniques for the control of multivariable systems are discussed in this volume.