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Numerical Methods for Fluid Dynamics - Dale R. Durran 2010-09-14

This scholarly text provides an introduction to the numerical methods used to model partial differential equations, with focus on atmospheric and oceanic flows. The book covers both the essentials of building a numerical model and the more sophisticated techniques that are now available. Finite difference methods, spectral methods, finite element method, flux-corrected methods and TVC schemes are all discussed. Throughout, the author keeps to a middle ground between the theorem-proof formalism of a mathematical text and the highly empirical approach found in some engineering publications. The book establishes a concrete link between theory and practice using an extensive range of test problems to illustrate the theoretically derived properties of various methods. From the reviews: "...the books unquestionable advantage is the clarity and simplicity in presenting virtually all basic ideas and methods of numerical analysis currently actively used in geophysical fluid dynamics." Physics of Atmosphere and Ocean

Patterns and Interfaces in Dissipative Dynamics - L.M. Pismen 2006-07-07

Spontaneous pattern formation in nonlinear dissipative systems far from equilibrium occurs in a variety of settings in nature and technology, and has applications ranging from nonlinear optics through solid and fluid mechanics, physical chemistry and chemical engineering to biology. This book explores the forefront of current research, describing in-depth the analytical methods that elucidate the complex evolution of nonlinear dissipative systems.

Nonlinear Dynamics, Volume 2 - Gaetan Kerschen 2014-03-28

This second volume of eight from the IMAC - XXXII Conference, brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Structural Dynamics, including papers on: Linear Systems Substructure Modelling Adaptive Structures Experimental Techniques Analytical Methods Damage Detection Damping of Materials & Members Modal Parameter Identification Modal Testing Methods System Identification Active Control Modal Parameter Estimation Processing Modal Data

An Introduction to Language and Linguistics - Ralph Fasold 2006-03-06

This accessible textbook is the only introduction to linguistics in which each chapter is written by an expert who teaches courses on that topic, ensuring balanced and uniformly excellent coverage of the full range of modern linguistics. Assuming no prior knowledge the text offers a clear introduction to the traditional topics of structural linguistics (theories of sound, form, meaning, and language change), and in addition provides full coverage of contextual linguistics, including separate chapters on discourse, dialect variation, language and culture, and the politics of language. There are also up-to-date separate chapters on language and the brain, computational linguistics, writing, child language acquisition, and second-language learning. The breadth of the textbook makes it ideal for introductory courses on language and linguistics offered by departments of English, sociology, anthropology, and communications, as well as by linguistics departments.

Structural Design for Fire Safety - Andrew H. Buchanan 2017-01-30

Structural Design for Fire Safety, 2nd edition Andrew H. Buchanan, University of Canterbury, New Zealand Anthony K. Abu, University of Canterbury, New Zealand A practical and informative guide to structural fire engineering This book presents a comprehensive overview of structural fire engineering. An update on the first edition, the book describes new developments in the past ten years, including advanced calculation methods and computer programs. Further additions include: calculation methods for membrane action in floor slabs exposed to fires; a chapter on composite steel-concrete construction; and case studies of structural collapses. The book begins with an introduction to fire safety in buildings, from fire growth and development to the devastating effects of severe fires on large building structures. Methods of calculating fire severity and fire resistance are then described in detail, together with both simple and advanced methods for assessing and designing for structural fire safety in buildings constructed from structural steel, reinforced concrete, or structural timber. Structural Design for Fire Safety, 2nd edition bridges the information gap between fire safety

engineers, structural engineers and building officials, and it will be useful for many others including architects, code writers, building designers, and firefighters. Key features: • Updated references to current research, as well as new end-of-chapter questions and worked examples. •Authors experienced in teaching, researching, and applying structural fire engineering in real buildings. • A focus on basic principles rather than specific building code requirements, for an international audience. An essential guide for structural engineers who wish to improve their understanding of buildings exposed to severe fires and an ideal textbook for introductory or advanced courses in structural fire engineering.

System Dynamics for Engineering Students - Nicolae Lobontiu 2017-08-29

Engineering system dynamics focuses on deriving mathematical models based on simplified physical representations of actual systems, such as mechanical, electrical, fluid, or thermal, and on solving these models for analysis or design purposes. System Dynamics for Engineering Students: Concepts and Applications features a classical approach to system dynamics and is designed to be utilized as a one-semester system dynamics text for upper-level undergraduate students with emphasis on mechanical, aerospace, or electrical engineering. It is the first system dynamics textbook to include examples from compliant (flexible) mechanisms and micro/nano electromechanical systems (MEMS/NEMS). This new second edition has been updated to provide more balance between analytical and computational approaches; introduces additional in-text coverage of Controls; and includes numerous fully solved examples and exercises. Features a more balanced treatment of mechanical, electrical, fluid, and thermal systems than other texts Introduces examples from compliant (flexible) mechanisms and MEMS/NEMS Includes a chapter on coupled-field systems Incorporates MATLAB® and Simulink® computational software tools throughout the book Supplements the text with extensive instructor support available online: instructor's solution manual, image bank, and PowerPoint lecture slides NEW FOR THE SECOND EDITION Provides more balance between analytical and computational approaches, including integration of Lagrangian equations as another modelling technique of dynamic systems Includes additional in-text coverage of Controls, to meet the needs of schools that cover both controls and system dynamics in the course Features a broader range of applications, including additional applications in pneumatic and hydraulic systems, and new applications in aerospace, automotive, and bioengineering systems, making the book even more appealing to mechanical engineers Updates include new and revised examples and end-of-chapter exercises with a wider variety of engineering applications

Nonlinear Dynamics in Economics and Social Sciences - Franco Gori 2012-12-06

This volume constitutes the Proceedings of the "Nonlinear Dynamics in Economics and Social Sciences" Meeting held at the Certosa di Pontignano, Siena, on May 27-30, 1991. The Meeting was organized by the National Group "Modelli Nonlineari in Economia e Dinamiche Complesse" of the Italian Ministery of University and SCientific Research, M.U.RS.T. The aim of the Conference, which followed a previous analogous initiative taking place in the very same Certosa, on January 1988*, was the one of offering a come together opportunity to economists interested in a new mathematical approach to the modelling of economical processes, through the use of more advanced analytical techniques, and mathematicians acting in the field of global dynamical systems theory and applications. A basiC underlying idea drove the organizers: the necessity of fOCUSing on the use that recent methods and results, as those commonly referred to the overpopularized label of "Chaotic Dynamics", did find in the social sciences domain; and thus to check their actual relevance in the research program of modelling economic phenomena, in order to individuate and stress promising perspectives, as well as to curb excessive hopes and criticize not infrequent cases where research reduces to mechanical, ad hoc, applications of "a la mode" techniques. In a word we felt the need of looking about the state of the arts in non-linear systems theory applications to economics and social processes: hence the title of the workshop and the volume.

Native Tongue - Suzette Haden Elgin 2013-08-15

First published in 1984, Native Tongue earned wide critical praise, and cult status as well. Set in the twenty-second century after the repeal of the Nineteenth Amendment, the novel reveals a world where women are once again property, denied civil rights, and banned from public life. In this world, Earth’s wealth relies on interplanetary commerce, for which the population depends on linguists, a small, clannish group of families whose women breed and become perfect translators of all the galaxies’ languages. The linguists wield power, but live in isolated compounds, hated by the population, and in fear of class warfare. But a group of women is destined to challenge the power of men and linguists. Nazareth, the most talented linguist of her family, is exhausted by her constant work translating for the government, supervising the children’s language education in the Alien-in-Residence interface chambers, running the compound, and caring for the elderly men. She longs to retire to the Barren House, where women past childbearing age knit, chat, and wait to die. What Nazareth does not yet know is that a clandestine revolution is going on in the Barren Houses: there, word by word, women are creating a language of their own to free them of men’s domination. Their secret must, above all, be kept until the language is ready for use. The women’s language, Láadan, is only one of the brilliant creations found in this stunningly original novel, which combines a page-turning plot with challenging meditations on the tensions between freedom and control, individuals and communities, thought and action. A complete work in itself, it is also the first volume in Elgin’s acclaimed Native Tongue trilogy.

Advanced Engineering Dynamics - Jerry H. Ginsberg 1998-11-13

A clear exposition of the dynamics of mechanical systems from an engineering perspective.

A HEAT TRANSFER TEXTBOOK - John H. Lienhard 2004

Dynamics - Benson H. Tongue 2011

The second edition provides engineers with a conceptual understanding of how dynamics is applied in the field. It builds their problem-solving skills. New problems with a wider variety of difficulty levels and applications have been added. An online problem-solving tool is available to reinforce how to find solutions. New images are included to add a visual element to the material. These show the link between an actual system and a modeled/analyzed system. Engineers will also benefit from the numerous new worked problems, algorithmic problems, and multi-part GO problems.

Safe Abortion - Organisation mondiale de la santé 2003-05-13

At a UN General Assembly Special Session in 1999, governments recognised unsafe abortion as a major public health concern, and pledged their commitment to reduce the need for abortion through expanded and improved family planning services, as well as ensure abortion services should be safe and accessible. This technical and policy guidance provides a comprehensive overview of the many actions that can be taken in health systems to ensure that women have access to good quality abortion services as allowed by law.

Fundamentals of Glacier Dynamics, Second Edition - C.J. van der Veen 2013-03-26

Measuring, monitoring, and modeling technologies and methods changed the field of glaciology significantly in the 14 years since the publication of the first edition of Fundamentals of Glacier Dynamics. Designed to help readers achieve the basic level of understanding required to describe and model the flow and dynamics of glaciers, this second edition provides a theoretical framework for quantitatively interpreting glacier changes and for developing models of glacier flow. See What's New in the Second Edition: Streamlined organization focusing on theory, model development, and data interpretation Introductory chapter reviews the most important mathematical tools used throughout the remainder of the book New chapter on fracture mechanics and iceberg calving Consolidated chapter covers applications of the force-budget technique using measurements of surface velocity to locate mechanical controls on glacier flow The latest developments in theory and modeling, including the addition of a discussion of exact time-dependent similarity solutions that can be used for verification of numerical models The book emphasizes developing procedures and presents derivations leading to frequently used equations step by step to allow readers to grasp the mathematical details as well as physical approximations involved without having to consult the original works. As a result, readers will have gained the understanding needed to apply similar techniques to somewhat different applications. Extensively updated with new material and focusing more on presenting the theoretical foundations of glacier flow, the book provides the tools for model validation in the form of analytical steady-state and time-evolving solutions. It provides the necessary background and theoretical foundation for developing more realistic ice-sheet models, which is essential for better integration of data and observations as well as for better model development.

English as a Global Language - David Crystal 2012-03-29

Written in a detailed and fascinating manner, this book is ideal for general readers interested in the English language.

The Big Book of Conflict Resolution Games: Quick, Effective Activities to Improve Communication, Trust and Collaboration - Mary Scannell 2010-05-28

Make workplace conflict resolution a game that EVERYBODY wins! Recent studies show that typical managers devote more than a quarter of their time to resolving coworker disputes. The Big Book of Conflict-Resolution Games offers a wealth of activities and exercises for groups of any size that let you manage your business (instead of managing personalities). Part of the acclaimed, bestselling Big Books series, this guide offers step-by-step directions and customizable tools that empower you to heal rifts arising from ineffective communication, cultural/personality clashes, and other specific problem areas—before they affect your organization's bottom line. Let The Big Book of Conflict-Resolution Games help you to: Build trust Foster morale Improve processes Overcome diversity issues And more Dozens of physical and verbal activities help create a safe environment for teams to explore several common forms of conflict—and their resolution. Inexpensive, easy-to-implement, and proved effective at Fortune 500 corporations and mom-and-pop businesses alike, the exercises in The Big Book of Conflict-Resolution Games delivers everything you need to make your workplace more efficient, effective, and engaged.

Engineering Fluid Mechanics - John A. Roberson 1980

Bagaimana memenangi hati kawan & mempengaruhi orang lain - Dale Carnegie 2010

Reviews of Nonlinear Dynamics and Complexity - Heinz Georg Schuster 2009-09-03

Adopting a cross-disciplinary approach, the review character of this monograph sets it apart from specialized journals. The editor is advised by a first-class board of international scientists, such that the carefully selected and invited contributions represent the latest and most relevant findings. The resulting review enables both

researchers and newcomers in life science, physics, and chemistry to access the most important results in this field, using a common language.

Water Chemistry - Patrick Brezonik 2011-03-22

It emphasizes that both equilibrium and kinetic processes are important in aquatic systems.

Dynamics of Quantum Dot Lasers - Christian Otto 2014-01-21

This thesis deals with the dynamics of state-of-the-art nanophotonic semiconductor structures, providing essential information on fundamental aspects of nonlinear dynamical systems on the one hand, and technological applications in modern telecommunication on the other. Three different complex laser structures are considered in detail: (i) a quantum-dot-based semiconductor laser under optical injection from a master laser, (ii) a quantum-dot laser with optical feedback from an external resonator, and (iii) a passively mode-locked quantum-well semiconductor laser with saturable absorber under optical feedback from an external resonator. Using a broad spectrum of methods, both numerical and analytical, this work achieves new fundamental insights into the interplay of microscopically based nonlinear laser dynamics and optical perturbations by delayed feedback and injection.

Engineering Mechanics - Michael Plesha 2009

Engineering Mechanics: Statics, SI Edition - Andrew Pytel 2016-01-01

ENGINEERING MECHANICS: STATICS, 4E, written by authors Andrew Pytel and Jaan Kiusalaas, provides readers with a solid understanding of statics without the overload of extraneous detail. The authors use their extensive teaching experience and first-hand knowledge to deliver a presentation that's ideally suited to the skills of today's learners. This edition clearly introduces critical concepts using features that connect real problems and examples with the fundamentals of engineering mechanics. Readers learn how to effectively analyze problems before substituting numbers into formulas -- a skill that will benefit them tremendously as they encounter real problems that do not always fit into standard formulas. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Engineering Dynamics - Jerry Ginsberg 2008

A modern vector oriented treatment of classical dynamics and its application to engineering problems.

The 48 Laws of Power - Robert Greene 2000-09-01

Amoral, cunning, ruthless, and instructive, this multi-million-copy New York Times bestseller is the definitive manual for anyone interested in gaining, observing, or defending against ultimate control – from the author of The Laws of Human Nature. In the book that People magazine proclaimed “beguiling” and “fascinating,” Robert Greene and Joost Elffers have distilled three thousand years of the history of power into 48 essential laws by drawing from the philosophies of Machiavelli, Sun Tzu, and Carl Von Clausewitz and also from the lives of figures ranging from Henry Kissinger to P.T. Barnum. Some laws teach the need for prudence (“Law 1: Never Outshine the Master”), others teach the value of confidence (“Law 28: Enter Action with Boldness”), and many recommend absolute self-preservation (“Law 15: Crush Your Enemy Totally”). Every law, though, has one thing in common: an interest in total domination. In a bold and arresting two-color package, The 48 Laws of Power is ideal whether your aim is conquest, self-defense, or simply to understand the rules of the game.

Democracy and Education - John Dewey 1916

In this book, Dewey tries to criticize and expand on the educational philosophies of Rousseau and Plato. Dewey's ideas were seldom adopted in America's public schools, although a number of his prescriptions have been continually advocated by those who have had to teach in them.

Their Eyes Were Watching God - Zora Neale Hurston 2020-05-30

Their Eyes Were Watching God is a 1937 novel by African-American writer Zora Neale Hurston. It is considered a classic of the Harlem Renaissance of the 1920s, and it is likely Hurston's best known work.

School, Family, and Community Partnerships - Joyce L. Epstein 2018-07-19

Strengthen family and community engagement to promote equity and increase student success! When schools, families, and communities collaborate and share responsibility for students' education, more students succeed in school. Based on 30 years of research and fieldwork, this fourth edition of a bestseller provides tools and guidelines to use to develop more effective and equitable programs of family and community engagement. Written by a team of well-known experts, this foundational text demonstrates a proven approach to implement and sustain inclusive, goal-oriented programs. Readers will find: Many examples and vignettes Rubrics and checklists for implementation of plans CD-ROM complete with slides and notes for workshop presentations

Nonlinear Dynamics, Volume 1 - Gaëtan Kerschen 2015-08-14

Nonlinear Dynamics, Volume 1. Proceedings of the 33rd IMAC, A Conference and Exposition on Balancing Simulation and Testing, 2015, the first volume of ten from the Conference brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Structural Dynamics, including papers on: Nonlinear Oscillations Nonlinear Simulation Using Harmonic Balance Nonlinear Modal Analysis Nonlinear System Identification Nonlinear Modeling & Simulation Nonlinearity in Practice Nonlinear Systems Round Robin on Nonlinear

System Identification.

Fundamentals of Gas Dynamics - Robert D. Zucker 2002-10-15

Provides all necessary equations, tables, and charts as well as self tests. Included chapters cover reaction propulsion systems and real gas effects. Written and organized in a manner that makes it accessible for self learning.

Topics in Nonlinear Dynamics - Erik Mosekilde 1997-01-04

Through a series of examples from physics, engineering, biology and economics, this book illustrates the enormous potential for application of ideas and concepts from nonlinear dynamics and chaos theory. The overlap with examples published in other books is virtually equal to zero. The book takes the reader from detailed studies of bifurcation structures of relativity simple models to pattern formation in spatially extended systems. The book also discusses the different perspectives that nonlinear dynamics brings to different fields of science. Contents:Deterministic Approach to Die TossingBifurcation Analysis of Simple Nonlinear SystemsCoupled Period-Doubling SystemsChaos in Technical Control SystemsEcological and Microbiological Population DynamicsPhysiological Control SystemsChaos and Hyperchaos in Economic and Managerial SystemsSpatiotemporal Phenomena in Extended Systems Readership: Nonlinear scientists. keywords:

Principles of Vibration - Benson H. Tongue 1996

Benson Tongue takes a refreshingly informal approach to the understanding and analysis of vibrations. He strikes the right balance between detail and accessibility, offering in-depth analysis and a friendly writing style. Beginning with classical subjects, e.g., single degree of freedom systems, the text moves into more modern material, emphasizing multiple degree of freedom systems. Numerous problems challenge students to think and analyze outcomes of various techniques employed. Additional modal analysis and linear algebra are incorporated to solve problems, utilizing but not requiring MATLAB. Another innovative feature of the text is a chapter devoted to "Seat of the Pants Engineering", which brings together some of the common approaches engineers use to get a quick answer or to verify an analysis. At the same time, he applies them to all the systems that have been discussed in earlier chapters. Principles of Vibration is an ideal text for upper-level undergraduate and graduate students in mechanical, civil, and aeronautical engineering departments.

The Dominant Goal Setting Journal -

Nonlinear Dynamics of Nanosystems - Günter Radons 2010-01-12

A discussion of the fundamental changes that occur when dynamical systems from the fields of nonlinear optics, solids, hydrodynamics and biophysics are scaled down to nanosize. The authors are leading scientists in the field and each of their contributions provides a broader introduction to the specific area of research. In so doing, they include both the experimental and theoretical point of view, focusing especially on the effects on the nonlinear dynamical behavior of scaling, stochasticity and quantum mechanics. For everybody working on the synthesis and integration of nanoscopic devices who sooner or later will have to learn how to deal with nonlinear effects.

A Grammar of the French Tongue - G. Cambier 1851

Engineering Mechanics - Benson H. Tongue 2020-09-29

Dynamics can be a major frustration for those students who don’t relate to the logic behind the material -- and this includes many of them! Engineering Mechanics: Dynamics meets their needs by combining rigor with user friendliness. The presentation in this text is very personalized, giving students the sense that they are having a one-on-one discussion with the authors. This minimizes the air of mystery that a more austere presentation can engender, and aids immensely in the students’ ability to retain and apply the material. The authors do not skimp on rigor but at the same time work tirelessly to make the material accessible and, as far as possible, fun to learn.

Neural Masses and Fields: Modelling the Dynamics of Brain Activity - Karl Friston 2015-05-25

Biophysical modelling of brain activity has a long and illustrious history and has recently profited from technological advances that furnish neuroimaging data at an unprecedented spatiotemporal resolution. Neuronal modelling is a very active area of research, with applications ranging from the characterization of neurobiological and cognitive processes, to constructing artificial brains in silico and building brain-machine interface and neuroprosthetic devices. Biophysical modelling has always benefited from interdisciplinary interactions between different and seemingly distant fields; ranging from mathematics and engineering to linguistics and psychology. This Research Topic aims to promote such interactions by promoting papers that contribute to a deeper understanding of neural activity as measured by fMRI or electrophysiology. In general, mean field models of neural activity can be divided into two classes: neural mass and neural field models. The main difference between these classes is that field models prescribe how a quantity characterizing neural activity (such as average depolarization of a neural population) evolves over both space and time as opposed to mass models, which characterize activity over time only; by assuming that all neurons in a population are located at (approximately) the same point. This Research Topic focuses on both classes of models and considers several aspects and their relative merits that: span from synapses to the whole brain; comparisons of their predictions with EEG and MEG spectra of spontaneous brain activity; evoked responses, seizures,

and fitting data - to infer brain states and map physiological parameters.

Nonlinear Dynamics and Chaos - Steven H. Strogatz 2018-05-04

This textbook is aimed at newcomers to nonlinear dynamics and chaos, especially students taking a first course in the subject. The presentation stresses analytical methods, concrete examples, and geometric intuition. The theory is developed systematically, starting with first-order differential equations and their bifurcations, followed by phase plane analysis, limit cycles and their bifurcations, and culminating with the Lorenz equations, chaos, iterated maps, period doubling, renormalization, fractals, and strange attractors.

Elements of Applied Bifurcation Theory - Yuri Kuznetsov 2013-03-09

Providing readers with a solid basis in dynamical systems theory, as well as explicit procedures for application of general mathematical results to particular problems, the focus here is on efficient numerical implementations of the developed techniques. The book is designed for advanced undergraduates or graduates in applied mathematics, as well as for Ph.D. students and researchers in physics, biology, engineering, and economics who use dynamical systems as model tools in their studies. A moderate mathematical background is assumed, and, whenever possible, only elementary mathematical tools are used. This new edition preserves the structure of the first while updating the context to incorporate recent theoretical developments, in particular new and improved numerical methods for bifurcation analysis.

Engineering Mechanics - Benson H. Tongue 2009-10-26

The second edition provides engineers with a conceptual understanding of how dynamics is applied in the field. It builds their problem-solving skills. New problems with a wider variety of difficulty levels and applications have been added. New images are included to add a visual element to the material. These show the link between an actual system and a modeled/analyzed system. Engineers will also benefit from the numerous new worked problems, algorithmic problems, and multi-part GO problems. NOTE: This title does not come with an online access code.

Don't Bite Your Tongue - Ruth Nemzoff 2008-08-05

Parents make enormous sacrifices helping children become healthy and autonomous adults. And when children are older, popular wisdom advises parents to let go, disconnect, and bite their tongues. But increasing life spans mean that parents and children can spend as many as five or six decades as adults together: actively parenting adult children is a reality for many families. Dr. Ruth Nemzoff--a leading expert in family dynamics--empowers parents to create close relationships with their adult children, while respecting their independence. Based on personal stories as well as advice that she has accrued from years of coaching, this lively and readable book shows parents how to: -communicate at long distances -discuss financial issues without using money as a form of control -speak up when disapproving of an adult child's partner or childrearing practices -handle adult children's career choices or other midlife changes -navigate an adult child's interreligious, interracial or same sex relationships No other book treats the challenges of parent and adult offspring relationships as part and parcel of a healthy family dynamic. This practical lessons of Don't Bite Your Tongue will help parents play a vital and positive role in their children's lives.