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Finite Element Procedures
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Roark's Formulas for Stress and Strain
College Physics for AP[®] Courses
Mechanics of Fluids
The History of the Theory of Structures
Doing Math with Python
Modern Robotics
Munson, Young and Okiishi's Fundamentals of Fluid Mechanics
Engineering Mechanics

Statics and Strength of Materials

This graduate textbook covers topics in statistical theory essential for graduate students preparing for work on a Ph.D. degree in statistics. This new edition has been revised and updated and in this fourth printing, errors have been ironed out. The first chapter provides a quick overview of concepts and results in measure-theoretic probability theory that are useful in statistics. The second chapter introduces some fundamental concepts in statistical decision theory and inference. Subsequent chapters contain detailed studies on some important topics: unbiased estimation, parametric estimation, nonparametric estimation, hypothesis testing, and confidence sets. A large number of exercises in each chapter provide not only practice problems for students, but also many additional results.

Finite Element Procedures

A balanced mechanics-materials approach and coverage of the latest developments in biomaterials and electronic materials, the new edition of this popular text is the most thorough and modern book available for upper-level undergraduate courses on the mechanical behavior of materials. To ensure that the student gains a thorough understanding the authors present the fundamental mechanisms that operate at micro- and nano-meter level across a wide-range of materials, in a way that is mathematically simple and requires no extensive knowledge of materials. This integrated approach provides a conceptual presentation that shows how the microstructure of a material controls its mechanical

behavior, and this is reinforced through extensive use of micrographs and illustrations. New worked examples and exercises help the student test their understanding. Further resources for this title, including lecture slides of select illustrations and solutions for exercises, are available online at www.cambridge.org/97800521866758.

Mathematical Statistics

Cutting-Edge Optofluidics Theories, Techniques, and Practices Add novel functionalities to your optical design projects by incorporating state-of-the-art microfluidic technologies and tools. Co-written by industry experts, *Optofluidics: Fundamentals, Devices, and Applications* covers the latest functional integration of optical devices and microfluidics, as well as automation techniques. This authoritative guide explains how to fabricate optical lab-on-a-chip devices, synthesize photonic crystals, develop solid and liquid core waveguides, use fluidic self-assembly methods, and accomplish direct microfabrication in solutions. The book includes details on developing biological sensors and arrays, handling maskless lithography, designing high-Q cavities, and working with nanoscale plasmonics. Research outcomes from the DARPA-funded Center for Optofluidics Integration are also discussed. Discover how to: Work with optofluidic sources, lenses, filters, switches, and splitters Use dielectric waveguiding devices to input, move, and manipulate fluids Integrate colloidal crystals and fibers with microfluidic systems Develop bio-inspired fluidic lens systems and aspherical lenses

Deploy miniaturized dye lasers, microscopes, biosensors, and resonators Analyze microfluidic systems using flow injection and fluorescent spectroscopy Build optofluidic direct fabrication platforms for innovative microstructures Accomplish optofluidic liquid actuation and particle manipulation

Skin in the Game

Introduction to Classical Mechanics

In their bestselling MATHEMATICAL STATISTICS WITH APPLICATIONS, premiere authors Dennis Wackerly, William Mendenhall, and Richard L. Scheaffer present a solid foundation in statistical theory while conveying the relevance and importance of the theory in solving practical problems in the real world. The authors' use of practical applications and excellent exercises helps students discover the nature of statistics and understand its essential role in scientific research. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Statics

STATICS AND STRENGTH OF MATERIALS, 7/e is fully updated text and presents logically organized, clear coverage of all major topics in statics and strength of materials, including the latest developments in materials technology and manufacturing/construction techniques. A basic knowledge of algebra and

trigonometry are the only mathematical skills it requires, although several optional sections using calculus are provided for instructors teaching in ABET accredited programs. A new introductory section on catastrophic failures shows students why these topics are so important, and 25 full-page, real-life application sidebars demonstrate the relevance of theory. To simplify understanding and promote student interest, the book is profusely illustrated.

Illustrated Seismic Processing

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Trust in Numbers

Publisher Description

Statistical Rethinking

The College Physics for AP(R) Courses text is designed to engage students in their exploration of physics and help them apply these concepts to the Advanced Placement(R) test. This book is Learning List-approved for AP(R) Physics courses. The text and images in this book are grayscale.

Introduction to Modern Economic Growth

Engineering Mechanics

NOTE: The Binder-ready, Loose-leaf version of this text contains the same content as the Bound, Paperback version. Fundamentals of Fluid Mechanics, 8th Edition offers comprehensive topical coverage, with varied examples and problems, application of visual component of fluid mechanics, and strong focus on effective learning. The text enables the gradual development of confidence in problem solving. The authors have designed their presentation to enable the gradual development of reader confidence in problem solving. Each important concept is introduced in easy-to-understand terms before more complicated examples are discussed. Continuing this book's tradition of extensive real-world applications, the 8th edition includes more Fluid in the News case study boxes in each chapter, new problem types, an increased number of real-world photos, and additional videos to augment the text material and help generate student interest in the topic. Example problems have been updated and numerous new photographs, figures, and graphs have been included. In addition, there are more videos designed to aid and enhance comprehension, support visualization skill building and engage students more deeply with the material and concepts.

Foundations of Analog and Digital Electronic Circuits

Engineering Mechanics: Combined Statics & Dynamics, Twelfth Edition is ideal for civil and

mechanical engineering professionals. In his substantial revision of Engineering Mechanics, R.C. Hibbeler empowers students to succeed in the whole learning experience. Hibbeler achieves this by calling on his everyday classroom experience and his knowledge of how students learn inside and outside of lecture. In addition to over 50% new homework problems, the twelfth edition introduces the new elements of Conceptual Problems, Fundamental Problems and MasteringEngineering, the most technologically advanced online tutorial and homework system.

Mechanical Vibrations: Theory and Applications

Mechanical Behavior of Materials

A modern and unified treatment of the mechanics, planning, and control of robots, suitable for a first course in robotics.

Semiconductor Manufacturing Handbook

Mechanical Vibrations: Theory and Applications takes an applications-based approach at teaching students to apply previously learned engineering principles while laying a foundation for engineering design. This text provides a brief review of the principles of dynamics so that terminology and notation are consistent and applies these principles to derive mathematical models of dynamic mechanical

systems. The methods of application of these principles are consistent with popular Dynamics texts. Numerous pedagogical features have been included in the text in order to aid the student with comprehension and retention. These include the development of three benchmark problems which are revisited in each chapter, creating a coherent chain linking all chapters in the book. Also included are learning outcomes, summaries of key concepts including important equations and formulae, fully solved examples with an emphasis on real world examples, as well as an extensive exercise set including objective-type questions. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The Narrow Corridor

#1 NEW YORK TIMES BESTSELLER • A bold work from the author of *The Black Swan* that challenges many of our long-held beliefs about risk and reward, politics and religion, finance and personal responsibility. In his most provocative and practical book yet, one of the foremost thinkers of our time redefines what it means to understand the world, succeed in a profession, contribute to a fair and just society, detect nonsense, and influence others. Citing examples ranging from Hammurabi to Seneca, Antaeus the Giant to Donald Trump, Nassim Nicholas Taleb shows how the willingness to accept one's own risks is an essential attribute of heroes, saints, and flourishing people in all walks of life. As always, both accessible and

iconoclastic, Taleb challenges long-held beliefs about the values of those who spearhead military interventions, make financial investments, and propagate religious faiths. Among his insights:

- For social justice, focus on symmetry and risk sharing. You cannot make profits and transfer the risks to others, as bankers and large corporations do. You cannot get rich without owning your own risk and paying for your own losses. Forcing skin in the game corrects this asymmetry better than thousands of laws and regulations.
- Ethical rules aren't universal. You're part of a group larger than you, but it's still smaller than humanity in general.
- Minorities, not majorities, run the world. The world is not run by consensus but by stubborn minorities imposing their tastes and ethics on others.
- You can be an intellectual yet still be an idiot. "Educated philistines" have been wrong on everything from Stalinism to Iraq to low-carb diets.
- Beware of complicated solutions (that someone was paid to find). A simple barbell can build muscle better than expensive new machines.
- True religion is commitment, not just faith. How much you believe in something is manifested only by what you're willing to risk for it. The phrase "skin in the game" is one we have often heard but rarely stopped to truly dissect. It is the backbone of risk management, but it's also an astonishingly rich worldview that, as Taleb shows in this book, applies to all aspects of our lives. As Taleb says, "The symmetry of skin in the game is a simple rule that's necessary for fairness and justice, and the ultimate BS-buster," and "Never trust anyone who doesn't have skin in the game. Without it, fools and crooks will benefit, and their mistakes will never come back to haunt them."

Statics and Mechanics of Materials

Design of Machine Elements

A foundational work on historical and social studies of quantification. What accounts for the prestige of quantitative methods? The usual answer is that quantification is desirable in social investigation as a result of its successes in science. Trust in Numbers questions whether such success in the study of stars, molecules, or cells should be an attractive model for research on human societies, and examines why the natural sciences are highly quantitative in the first place. Theodore Porter argues that a better understanding of the attractions of quantification in business, government, and social research brings a fresh perspective to its role in psychology, physics, and medicine. Quantitative rigor is not inherent in science but arises from political and social pressures, and objectivity derives its impetus from cultural contexts. In a new preface, the author sheds light on the current infatuation with quantitative methods, particularly at the intersection of science and bureaucracy.

Engineering Circuit Analysis

Mathematical Statistics with Applications

Known for its accuracy, clarity, and dependability, Meriam, Kraige, and Bolton's Engineering Mechanics:

Statics, 8th Edition has provided a solid foundation of mechanics principles for more than 60 years. This text continues to help students develop their problem-solving skills with an extensive variety of engaging problems related to engineering design. In addition to new homework problems, the text includes a number of helpful sample problems. To help students build necessary visualization and problem-solving skills, the text strongly emphasizes drawing free-body diagrams, one of the most important skills needed to solve mechanics problems.

Turbulent Flows

Readers gain both an understanding of fluid mechanics and the ability to analyze this important phenomena encountered by practicing engineers with MECHANICS OF FLUIDS, 5E. The authors use proven learning tools to help students visualize many difficult-to-understand aspects of fluid mechanics. The book presents numerous phenomena that are often not discussed in other books, such as entrance flows, the difference between wakes and separated regions, free-stream fluctuations and turbulence, and vorticity. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Statics

Fundamentals of Manufacturing, Third Edition provides a structured review of the fundamentals of manufacturing for individuals planning to take SME'S

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Certified Manufacturing Technologist (CMfgT) or Certified Manufacturing Engineer (CMfgE) certification exams. This book has been updated according to the most recent Body of Knowledge published by the Certification Oversight and Appeals Committee of the Society of Manufacturing Engineers. While the objective of this book is to prepare for the certification process, it is a primary source of information for individuals interested in learning fundamental manufacturing concepts and practices. This book is a valuable resource for anyone with limited manufacturing experience or training. Instructor slides and the Fundamentals of Manufacturing Workbook are available to complement course instruction and exam preparation. Table of Contents

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Fundamentals of Manufacturing, Third Edition

Statistical Rethinking: A Bayesian Course with Examples in R and Stan builds readers' knowledge of and confidence in statistical modeling. Reflecting the need for even minor programming in today's model-based statistics, the book pushes readers to perform step-by-step calculations that are usually automated. This unique computational approach ensures that readers understand enough of the details to make

reasonable choices and interpretations in their own modeling work. The text presents generalized linear multilevel models from a Bayesian perspective, relying on a simple logical interpretation of Bayesian probability and maximum entropy. It covers from the basics of regression to multilevel models. The author also discusses measurement error, missing data, and Gaussian process models for spatial and network autocorrelation. By using complete R code examples throughout, this book provides a practical foundation for performing statistical inference. Designed for both PhD students and seasoned professionals in the natural and social sciences, it prepares them for more advanced or specialized statistical modeling. **Web Resource** The book is accompanied by an R package (rethinking) that is available on the author's website and GitHub. The two core functions (map and map2stan) of this package allow a variety of statistical models to be constructed from standard model formulas.

Optofluidics: Fundamentals, Devices, and Applications

This book is designed as a software-based lab book to complement a standard textbook in an engineering statics course, which is usually taught at the undergraduate level. This book can also be used as an auxiliary workbook in a CAE or Finite Element Analysis course for undergraduate students. Each book comes with a disc containing video demonstrations, a quick introduction to SOLIDWORKS, and all the part files used in the book. This textbook has been carefully

developed with the understanding that CAE software has developed to a point that it can be used as a tool to aid students in learning engineering ideas, concepts and even formulas. These concepts are demonstrated in each section of this book. Using the graphics-based tools of SOLIDWORKS Motion can help reduce the dependency on mathematics to teach these concepts substantially. The contents of this book have been written to match the contents of most statics textbooks. There are 8 chapters in this book. Each chapter is designed as one week's workload, consisting of 2 to 3 sections. Each section is designed for a student to follow the exact steps in that section and learn a concept or topic of statics. Typically, each section takes 15-40 minutes to complete the exercises. Each copy of this book comes with a disc containing videos that demonstrate the steps used in each section of the book, a 123 page introduction to Part and Assembly Modeling with SOLIDWORKS in PDF format, and all the files readers may need if they have any trouble. The concise introduction to SOLIDWORKS PDF is designed for those students who have no experience with SOLIDWORKS and want to feel more comfortable working on the exercises in this book. All of the same content is available for download on the book's companion website.

Discovering Statistics Using R

Introduction to Modern Economic Growth is a groundbreaking text from one of today's leading economists. Daron Acemoglu gives graduate students

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not only the tools to analyze growth and related macroeconomic problems, but also the broad perspective needed to apply those tools to the big-picture questions of growth and divergence. And he introduces the economic and mathematical foundations of modern growth theory and macroeconomics in a rigorous but easy to follow manner. After covering the necessary background on dynamic general equilibrium and dynamic optimization, the book presents the basic workhorse models of growth and takes students to the frontier areas of growth theory, including models of human capital, endogenous technological change, technology transfer, international trade, economic development, and political economy. The book integrates these theories with data and shows how theoretical approaches can lead to better perspectives on the fundamental causes of economic growth and the wealth of nations. Innovative and authoritative, this book is likely to shape how economic growth is taught and learned for years to come. Introduces all the foundations for understanding economic growth and dynamic macroeconomic analysis Focuses on the big-picture questions of economic growth Provides mathematical foundations Presents dynamic general equilibrium Covers models such as basic Solow, neoclassical growth, and overlapping generations, as well as models of endogenous technology and international linkages Addresses frontier research areas such as international linkages, international trade, political economy, and economic development and structural change An accompanying Student Solutions Manual containing the answers to selected exercises is available (978-0-691-14163-3/\$24.95).

See: <http://press.princeton.edu/titles/8970.html>. For Professors only: To access a complete solutions manual online, email us at: acemoglusolutions@press.princeton.edu

Fundamentals of Structural Analysis

Intended for machinery, mechanism, and device designers; engineers, technicians; and inventors and students, this fourth edition includes a glossary of machine design and kinematics terms; material on robotics; and information on nanotechnology and mechanisms applications.

Mechanics of Materials

Doing Math with Python shows you how to use Python to delve into high school-level math topics like statistics, geometry, probability, and calculus. You'll start with simple projects, like a factoring program and a quadratic-equation solver, and then create more complex projects once you've gotten the hang of things. Along the way, you'll discover new ways to explore math and gain valuable programming skills that you'll use throughout your study of math and computer science. Learn how to:

- Describe your data with statistics, and visualize it with line graphs, bar charts, and scatter plots
- Explore set theory and probability with programs for coin flips, dicing, and other games of chance
- Solve algebra problems using Python's symbolic math functions
- Draw geometric shapes and explore fractals like the Barnsley fern, the Sierpinski triangle, and the Mandelbrot set
- Write

programs to find derivatives and integrate functions. Creative coding challenges and applied examples help you see how you can put your new math and coding skills into practice. You'll write an inequality solver, plot gravity's effect on how far a bullet will travel, shuffle a deck of cards, estimate the area of a circle by throwing 100,000 "darts" at a board, explore the relationship between the Fibonacci sequence and the golden ratio, and more. Whether you're interested in math but have yet to dip into programming or you're a teacher looking to bring programming into the classroom, you'll find that Python makes programming easy and practical. Let Python handle the grunt work while you focus on the math.

The Science and Engineering of Materials

The ultimate resource for designers, engineers, and analyst working with calculations of loads and stress.

Mechanisms and Mechanical Devices Sourcebook, Fourth Edition

Applied Strength of Materials

Mechanics Of Materials (In Si Units)

This practical introduction includes all of the coverage of strength topics contained in this larger text. It's a step-by-step presentation that is so well suited to undergraduate engineering technology students.

Coverage includes: belt friction, stress concentrations, Mohr's circle of stress, moment-area theorems, centroids by integration, and more.

Roark's Formulas for Stress and Strain

From the authors of the international bestseller *Why Nations Fail*, a crucial new big-picture framework that answers the question of how liberty flourishes in some states but falls to authoritarianism or anarchy in others--and explains how it can continue to thrive despite new threats. In *Why Nations Fail*, Daron Acemoglu and James A. Robinson argued that countries rise and fall based not on culture, geography, or chance, but on the power of their institutions. In their new book, they build a new theory about liberty and how to achieve it, drawing a wealth of evidence from both current affairs and disparate threads of world history. Liberty is hardly the "natural" order of things. In most places and at most times, the strong have dominated the weak and human freedom has been quashed by force or by customs and norms. Either states have been too weak to protect individuals from these threats, or states have been too strong for people to protect themselves from despotism. Liberty emerges only when a delicate and precarious balance is struck between state and society. There is a Western myth that political liberty is a durable construct, arrived at by a process of "enlightenment." This static view is a fantasy, the authors argue. In reality, the corridor to liberty is narrow and stays open only via a fundamental and incessant struggle between state

and society: The authors look to the American Civil Rights Movement, Europe's early and recent history, the Zapotec civilization circa 500 BCE, and Lagos's efforts to uproot corruption and institute government accountability to illustrate what it takes to get and stay in the corridor. But they also examine Chinese imperial history, colonialism in the Pacific, India's caste system, Saudi Arabia's suffocating cage of norms, and the "Paper Leviathan" of many Latin American and African nations to show how countries can drift away from it, and explain the feedback loops that make liberty harder to achieve. Today we are in the midst of a time of wrenching destabilization. We need liberty more than ever, and yet the corridor to liberty is becoming narrower and more treacherous. The danger on the horizon is not "just" the loss of our political freedom, however grim that is in itself; it is also the disintegration of the prosperity and safety that critically depend on liberty. The opposite of the corridor of liberty is the road to ruin.

College Physics for AP® Courses

This handbook will provide engineers with the principles, applications, and solutions needed to design and manage semiconductor manufacturing operations. Consolidating the many complex fields of semiconductor fundamentals and manufacturing into one volume by deploying a team of world class specialists, it allows the quick look up of specific manufacturing reference data across many subdisciplines.

Mechanics of Fluids

Ten years after the publication of the first English edition of *The History of the Theory of Structures*, Dr. Kurrer now gives us a much enlarged second edition with a new subtitle: *Searching for Equilibrium*. The author invites the reader to take part in a journey through time to explore the equilibrium of structures. That journey starts with the emergence of the statics and strength of materials of Leonardo da Vinci and Galileo, and reaches its first climax with Coulomb's structural theories for beams, earth pressure and arches in the late 18th century. Over the next 100 years, Navier, Culmann, Maxwell, Rankine, Mohr, Castigliano and Müller-Breslau moulded theory of structures into a fundamental engineering science discipline that - in the form of modern structural mechanics - played a key role in creating the design languages of the steel, reinforced concrete, aircraft, automotive and shipbuilding industries in the 20th century. In his portrayal, the author places the emphasis on the formation and development of modern numerical engineering methods such as FEM and describes their integration into the discipline of computational mechanics. Brief insights into customary methods of calculation backed up by historical facts help the reader to understand the history of structural mechanics and earth pressure theory from the point of view of modern engineering practice. This approach also makes a vital contribution to the teaching of engineers. Dr. Kurrer manages to give us a real feel for the different approaches of the players involved through their

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engineering science profiles and personalities, thus creating awareness for the social context. The 260 brief biographies convey the subjective aspect of theory of structures and structural mechanics from the early years of the modern era to the present day. Civil and structural engineers and architects are well represented, but there are also biographies of mathematicians, physicists, mechanical engineers and aircraft and ship designers. The main works of these protagonists of theory of structures are reviewed and listed at the end of each biography. Besides the acknowledged figures in theory of structures such as Coulomb, Culmann, Maxwell, Mohr, Müller-Breslau, Navier, Rankine, Saint-Venant, Timoshenko and Westergaard, the reader is also introduced to G. Green, A. N. Krylov, G. Li, A. J. S. Pippard, W. Prager, H. A. Schade, A. W. Skempton, C. A. Truesdell, J. A. L. Waddell and H. Wagner. The pioneers of the modern movement in theory of structures, J. H. Argyris, R. W. Clough, T. v. Kármán, M. J. Turner and O. C. Zienkiewicz, are also given extensive biographical treatment. A huge bibliography of about 4,500 works rounds off the book. New content in the second edition deals with earth pressure theory, ultimate load method, an analysis of historical textbooks, steel bridges, lightweight construction, theory of plates and shells, Green's function, computational statics, FEM, computer-assisted graphical analysis and historical engineering science. The number of pages now exceeds 1,200 - an increase of 50% over the first English edition. This book is the first all-embracing historical account of theory of structures from the 16th century to the present day.

The History of the Theory of Structures

This textbook covers all the standard introductory topics in classical mechanics, including Newton's laws, oscillations, energy, momentum, angular momentum, planetary motion, and special relativity. It also explores more advanced topics, such as normal modes, the Lagrangian method, gyroscopic motion, fictitious forces, 4-vectors, and general relativity. It contains more than 250 problems with detailed solutions so students can easily check their understanding of the topic. There are also over 350 unworked exercises which are ideal for homework assignments. Password protected solutions are available to instructors at www.cambridge.org/9780521876223. The vast number of problems alone makes it an ideal supplementary text for all levels of undergraduate physics courses in classical mechanics. Remarks are scattered throughout the text, discussing issues that are often glossed over in other textbooks, and it is thoroughly illustrated with more than 600 figures to help demonstrate key concepts.

Doing Math with Python

The Science and Engineering of Materials, Third Edition, continues the general theme of the earlier editions in providing an understanding of the relationship between structure, processing, and properties of materials. This text is intended for use by students of engineering rather than materials, at first degree level who have completed prerequisites in

chemistry, physics, and mathematics. The author assumes these students will have had little or no exposure to engineering sciences such as statics, dynamics, and mechanics. The material presented here admittedly cannot and should not be covered in a one-semester course. By selecting the appropriate topics, however, the instructor can emphasise metals, provide a general overview of materials, concentrate on mechanical behaviour, or focus on physical properties. Additionally, the text provides the student with a useful reference for accompanying courses in manufacturing, design, or materials selection. In an introductory, survey text such as this, complex and comprehensive design problems cannot be realistically introduced because materials design and selection rely on many factors that come later in the student's curriculum. To introduce the student to elements of design, however, more than 100 examples dealing with materials selection and design considerations are included in this edition.

Modern Robotics

Unlike books currently on the market, this book attempts to satisfy two goals: combine circuits and electronics into a single, unified treatment, and establish a strong connection with the contemporary world of digital systems. It will introduce a new way of looking not only at the treatment of circuits, but also at the treatment of introductory coursework in engineering in general. Using the concept of "abstraction," the book attempts to form a bridge between the world of physics and the world of large

computer systems. In particular, it attempts to unify electrical engineering and computer science as the art of creating and exploiting successive abstractions to manage the complexity of building useful electrical systems. Computer systems are simply one type of electrical systems. +Balances circuits theory with practical digital electronics applications. +Illustrates concepts with real devices. +Supports the popular circuits and electronics course on the MIT OpenCourseWare from which professionals worldwide study this new approach. +Written by two educators well known for their innovative teaching and research and their collaboration with industry. +Focuses on contemporary MOS technology.

Munson, Young and Okiishi's Fundamentals of Fluid Mechanics

Sets the standard for introducing the field of comparative politics This text begins by laying out a proven analytical framework that is accessible for students new to the field. The framework is then consistently implemented in twelve authoritative country cases, not only to introduce students to what politics and governments are like around the world but to also understand the importance of their similarities and differences. Written by leading comparativists and area study specialists, Comparative Politics Today helps to sort through the world's complexity and to recognize patterns that lead to genuine political insight. MyPoliSciLab is an integral part of the Powell/Dalton/Strom program. Explorer is a hands-on way to develop quantitative

literacy and to move students beyond punditry and opinion. Video Series features Pearson authors and top scholars discussing the big ideas in each chapter and applying them to enduring political issues. Simulations are a game-like opportunity to play the role of a political actor and apply course concepts to make realistic political decisions. ALERT: Before you purchase, check with your instructor or review your course syllabus to ensure that you select the correct ISBN. Several versions of Pearson's MyLab & Mastering products exist for each title, including customized versions for individual schools, and registrations are not transferable. In addition, you may need a CourseID, provided by your instructor, to register for and use Pearson's MyLab & Mastering products. Packages Access codes for Pearson's MyLab & Mastering products may not be included when purchasing or renting from companies other than Pearson; check with the seller before completing your purchase. Used or rental books If you rent or purchase a used book with an access code, the access code may have been redeemed previously and you may have to purchase a new access code. Access codes Access codes that are purchased from sellers other than Pearson carry a higher risk of being either the wrong ISBN or a previously redeemed code. Check with the seller prior to purchase.

Engineering Mechanics

Lecturers - request an e-inspection copy of this text or contact your local SAGE representative to discuss your course needs. Watch Andy Field's introductory

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video to Discovering Statistics Using R Keeping the uniquely humorous and self-deprecating style that has made students across the world fall in love with Andy Field's books, Discovering Statistics Using R takes students on a journey of statistical discovery using R, a free, flexible and dynamically changing software tool for data analysis that is becoming increasingly popular across the social and behavioural sciences throughout the world. The journey begins by explaining basic statistical and research concepts before a guided tour of the R software environment. Next you discover the importance of exploring and graphing data, before moving onto statistical tests that are the foundations of the rest of the book (for example correlation and regression). You will then stride confidently into intermediate level analyses such as ANOVA, before ending your journey with advanced techniques such as MANOVA and multilevel models. Although there is enough theory to help you gain the necessary conceptual understanding of what you're doing, the emphasis is on applying what you learn to playful and real-world examples that should make the experience more fun than you might expect. Like its sister textbooks, Discovering Statistics Using R is written in an irreverent style and follows the same ground-breaking structure and pedagogical approach. The core material is augmented by a cast of characters to help the reader on their way, together with hundreds of examples, self-assessment tests to consolidate knowledge, and additional website material for those wanting to learn more. Given this book's accessibility, fun spirit, and use of bizarre real-world research it should be essential for anyone wanting to learn about statistics using the

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freely-available R software.

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