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Fox and McDonald's Introduction to Fluid Mechanics
Astronomy
Introduction to Probability, Statistics, and Random Processes
What Video Games Have to Teach Us About Learning and Literacy. Second Edition
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How to Teach Relativity to Your Dog IGI
Global

A series of discovery-based activities focused on building confidence with physics concepts and problem solving by helping to connect new ideas with existing knowledge. The student learns to evaluate, draw, diagram, and graph physics concepts.

e-Learning and the Science of Instruction
Vintage

Through ten editions, Fox and McDonald's Introduction to Fluid Mechanics has helped students understand the physical concepts, basic principles, and analysis methods of fluid mechanics. This market-leading textbook provides a balanced, systematic approach to mastering critical concepts with the proven Fox-McDonald solution methodology. In-depth yet accessible chapters present governing equations, clearly state assumptions, and relate mathematical results to

corresponding physical behavior. Emphasis is placed on the use of control volumes to support a practical, theoretically-inclusive problem-solving approach to the subject. Each comprehensive chapter includes numerous, easy-to-follow examples that illustrate good solution technique and explain challenging points. A broad range of carefully selected topics describe how to apply the governing equations to various problems, and explain physical concepts to enable students to model real-world fluid flow situations. Topics include

flow measurement, dimensional analysis and similitude, flow in pipes, ducts, and open channels, fluid machinery, and more. To enhance student learning, the book incorporates numerous pedagogical features including chapter summaries and learning objectives, end-of-chapter problems, useful equations, and design and open-ended problems that encourage students to apply fluid mechanics principles to the design of devices and systems.

The Fabric of the Cosmos Orbit

This brand new Handbook addresses Paralympic sports and athletes, providing practical information on the medical issues, biological factors in the performance of the sports and physical conditioning. The book begins with a comprehensive introduction of the Paralympic athlete, followed by discipline-specific reviews from leading authorities in disability sport science, each covering the biomechanics, physiology, medicine, philosophy, sociology and psychology of the discipline. The Paralympic Athlete also addresses recent assessment and training tools to enhance the performance of athletes, particularly useful for trainers

and coaches, and examples of best practice on athletes' scientific counseling are also presented. This new title sits in a series of specialist reference volumes, ideal for the use of professionals working directly with competitive athletes.

Ergonomic Guidelines for Manual Material Handling Corwin Press

Getting Ready for the 4th Grade Assessment Test: Help Improve Your Child's Math and English Skills - Many parents are expressing a demand for books that will help their children succeed and excel on the fourth grade assessment tests in math and English -especially in areas where children have limited access to computers. This book will help students practice basic math concepts, i.e., number sense and applications as well as more difficult math, such as patterns, functions, and algebra. English skills will include practice in reading comprehension, writing, and vocabulary. Rubrics are included for self-evaluation.

Toward a Ludic Architecture CRC Press

Surface Detail is among Iain M. Banks' Culture novels, a breathtaking achievement from a writer whose body of work is without parallel in the modern

history of science fiction. It begins in the realm of the Real, where matter still matters. It begins with a murder. And it will not end until the Culture has gone to war with death itself. Lededje Y'breq is one of the Intagliated, her marked body bearing witness to a family shame, her life belonging to a man whose lust for power is without limit. Prepared to risk everything for her freedom, her release, when it comes, is at a price, and to put things right she will need the help of the Culture. Benevolent, enlightened and almost infinitely resourceful though it may be, the Culture can only do so much for any individual. With the assistance of one of its most powerful -- and arguably deranged -- warships, Lededje finds herself heading into a combat zone not even sure which side the Culture is really on. A war -- brutal, far-reaching -- is already raging within the digital realms that store the souls of the dead, and it's about to erupt into reality. It started in the realm of the Real and that is where it will end. It will touch countless lives and affect entire civilizations, but at the center of it all is a young woman whose need for revenge masks another motive altogether. The

Culture Series Consider Phlebas The Player of Games Use of Weapons The State of the Art Excession Inversions Look to Windward Matter Surface Detail The Hydrogen Sonata

Surface Detail Macmillan

This project-oriented facilities design and material handling reference explores the techniques and procedures for developing an efficient facility layout, and introduces some of the state-of-the-art tools involved, such as computer simulation. A "how-to," systematic, and methodical approach leads readers through the collection, analysis and development of information to produce a quality functional plant layout. Lean manufacturing; work cells and group technology; time standards; the concepts behind calculating machine and personnel requirements, balancing assembly lines, and leveling workloads in manufacturing cells; automatic identification and data collection; and ergonomics. For facilities planners, plant layout, and industrial engineer professionals who are involved in facilities planning and design.

Manufacturing Facilities Design and Material Handling IAP

Ade Patience can see the future and it's destroying his life. When the seventeen-year-old Mantlo High School student knocks himself unconscious, he can see days and decades into his own future. Ade's the best of Denver's "divination" underground and eager to join the heralded Mantlo Diviners, a group of similarly enabled teens. Yet, unlike the Diviners, Ade Patience doesn't see the future out of curiosity or good will; Ade gives himself concussions because he's addicted to the high, the Buzz, he gets when he breaks the laws of physics. And while there have been visions he's wanted to change, Ade knows the Rule: You can't change the future, no matter how hard you try. His memory is failing, his grades are in a death spiral, and both Ade's best friend and his shrink are begging him to stop before he kills himself. Ade knows he needs to straighten-out. Luckily, the stunning Vauxhall Rodolfo has just transferred to Mantlo and, as Ade has seen her in a vision two years previously, they're going to fall in love. It's just the motivation Ade needs to kick his habit. Only things are a bit more complicated. Vauxhall has an addiction of her own, and,

after a a vision in which he sees Vauxhall's close friend, Jimmy, drown while he looks on seemingly too wasted to move, Ade realizes that he must break the one rule he's been told he can't The pair must overcome their addictions and embrace their love for each other in order to do the impossible: change the future.

Fundamentals of Biomechanics Kogan Page Publishers

"Provides theory and research-based recommendations on information presentation techniques for multimedia and e-learning environments. Focuses on extensively researched principles and methodologies, offering comprehensive research and practical implications while providing concrete examples on adaptive multimedia learning."--Publisher description.

Physlets Little, Brown

What is the impact of such energy issues as global warming, radioactive waste, and municipal solid waste on the individual and society? ENERGY: ITS USES AND THE ENVIRONMENT, 5E, International Edition answers these questions, emphasizing the physical principles behind energy and its effects on our environment, and explaining

the basic physical principles behind the use of energy, including the study of mechanics, electricity and magnetism, thermodynamics, and atomic and nuclear physics. By placing energy issues within the context of everyday examples and asking you to define and support critical arguments, *ENERGY: ITS USES AND THE ENVIRONMENT*, 5E, International Edition offers a provocative approach to this crucial issue.

The Tipping Point Springer Science & Business Media

From the bestselling author of *The Bomber Mafia*: discover Malcolm Gladwell's breakthrough debut and explore the science behind viral trends in business, marketing, and human behavior. The tipping point is that magic moment when an idea, trend, or social behavior crosses a threshold, tips, and spreads like wildfire. Just as a single sick person can start an epidemic of the flu, so too can a small but precisely targeted push cause a fashion trend, the popularity of a new product, or a drop in the crime rate. This widely acclaimed bestseller, in which Malcolm Gladwell explores and brilliantly illuminates the tipping point phenomenon,

is already changing the way people throughout the world think about selling products and disseminating ideas. "A wonderful page-turner about a fascinating idea that should affect the way every thinking person looks at the world."

—Michael Lewis

Future Imperfect Melcher Media Incorporated

What is the secret of talent? How do we unlock it? This groundbreaking work provides readers with tools they can use to maximize potential in themselves and others. Whether you're coaching soccer or teaching a child to play the piano, writing a novel or trying to improve your golf swing, this revolutionary book shows you how to grow talent by tapping into a newly discovered brain mechanism. Drawing on cutting-edge neurology and firsthand research gathered on journeys to nine of the world's talent hotbeds—from the baseball fields of the Caribbean to a classical-music academy in upstate New York—Coyle identifies the three key elements that will allow you to develop your gifts and optimize your performance in sports, art, music, math, or just about anything. • Deep Practice Everyone knows

that practice is a key to success. What everyone doesn't know is that specific kinds of practice can increase skill up to ten times faster than conventional practice. • Ignition We all need a little motivation to get started. But what separates truly high achievers from the rest of the pack? A higher level of commitment—call it passion—born out of our deepest unconscious desires and triggered by certain primal cues. Understanding how these signals work can help you ignite passion and catalyze skill development. • Master Coaching What are the secrets of the world's most effective teachers, trainers, and coaches? Discover the four virtues that enable these "talent whisperers" to fuel passion, inspire deep practice, and bring out the best in their students. These three elements work together within your brain to form myelin, a microscopic neural substance that adds vast amounts of speed and accuracy to your movements and thoughts. Scientists have discovered that myelin might just be the holy grail: the foundation of all forms of greatness, from Michelangelo's to Michael Jordan's. The good news about myelin is that it isn't fixed at birth; to the

contrary, it grows, and like anything that grows, it can be cultivated and nourished. Combining revelatory analysis with illuminating examples of regular people who have achieved greatness, this book will not only change the way you think about talent, but equip you to reach your own highest potential.

Managing Cognitive Load in Adaptive Multimedia Learning John Wiley & Sons NATIONAL BESTSELLER • From one of the world’s leading physicists and author of the Pulitzer Prize finalist *The Elegant Universe*, comes “an astonishing ride” through the universe (*The New York Times*) that makes us look at reality in a completely different way. Space and time form the very fabric of the cosmos. Yet they remain among the most mysterious of concepts. Is space an entity? Why does time have a direction? Could the universe exist without space and time? Can we travel to the past? Greene has set himself a daunting task: to explain non-intuitive, mathematical concepts like String Theory, the Heisenberg Uncertainty Principle, and Inflationary Cosmology with analogies drawn from common experience. From Newton’s unchanging realm in which

space and time are absolute, to Einstein’s fluid conception of spacetime, to quantum mechanics’ entangled arena where vastly distant objects can instantaneously coordinate their behavior, Greene takes us all, regardless of our scientific backgrounds, on an irresistible and revelatory journey to the new layers of reality that modern physics has discovered lying just beneath the surface of our everyday world.

Fully-protected Marine Reserves Pearson Educación

Designed for students, young managers and seasoned practitioners alike, this handbook explains the nuts and bolts of the modern logistics and distribution world in plain language. Illustrated throughout, this second edition includes new chapters on areas previously not covered, such as: intermodal transport; benchmarking; environmental matters; and vehicle and depot security.

The Sourcebook for Teaching Science, Grades 6-12 Wiley-Blackwell

Good Strategy/Bad Strategy clarifies the muddled thinking underlying too many strategies and provides a clear way to create and implement a powerful action-

oriented strategy for the real world. Developing and implementing a strategy is the central task of a leader. A good strategy is a specific and coherent response to—and approach for—overcoming the obstacles to progress. A good strategy works by harnessing and applying power where it will have the greatest effect. Yet, Rumelt shows that there has been a growing and unfortunate tendency to equate Mom-and-apple-pie values, fluffy packages of buzzwords, motivational slogans, and financial goals with “strategy.” In *Good Strategy/Bad Strategy*, he debunks these elements of “bad strategy” and awakens an understanding of the power of a “good strategy.” He introduces nine sources of power—ranging from using leverage to effectively focusing on growth—that are eye-opening yet pragmatic tools that can easily be put to work on Monday morning, and uses fascinating examples from business, nonprofit, and military affairs to bring its original and pragmatic ideas to life. The detailed examples range from Apple to General Motors, from the two Iraq wars to Afghanistan, from a small local market to Wal-Mart, from Nvidia to Silicon

Graphics, from the Getty Trust to the Los Angeles Unified School District, from Cisco Systems to Paccar, and from Global Crossing to the 2007–08 financial crisis. Reflecting an astonishing grasp and integration of economics, finance, technology, history, and the brilliance and foibles of the human character, *Good Strategy/Bad Strategy* stems from Rumelt’s decades of digging beyond the superficial to address hard questions with honesty and integrity.

Action Science Springer Science & Business Media

Cognitive Development in a Digital Age James Paul Gee begins his classic book with "I want to talk about video games—yes, even violent video games—and say some positive things about them." With this simple but explosive statement, one of America's most well-respected educators looks seriously at the good that can come from playing video games. This revised edition expands beyond mere gaming, introducing readers to fresh perspectives based on games like *World of Warcraft* and *Half-Life 2*. It delves deeper into cognitive development, discussing how video games can shape our

understanding of the world. An undisputed must-read for those interested in the intersection of education, technology, and pop culture, *What Video Games Have to Teach Us About Learning and Literacy* challenges traditional norms, examines the educational potential of video games, and opens up a discussion on the far-reaching impacts of this ubiquitous aspect of modern life.

Good Strategy Bad Strategy Pearson

The essential e-learning design manual, updated with the latest research, design principles, and examples *e-Learning and the Science of Instruction* is the ultimate handbook for evidence-based e-learning design. Since the first edition of this book, e-learning has grown to account for at least 40% of all training delivery media. However, digital courses often fail to reach their potential for learning effectiveness and efficiency. This guide provides research-based guidelines on how best to present content with text, graphics, and audio as well as the conditions under which those guidelines are most effective. This updated fourth edition describes the guidelines, psychology, and applications for ways to improve learning through

personalization techniques, coherence, animations, and a new chapter on evidence-based game design. The chapter on the Cognitive Theory of Multimedia Learning introduces three forms of cognitive load which are revisited throughout each chapter as the psychological basis for chapter principles. A new chapter on engagement in learning lays the groundwork for in-depth reviews of how to leverage worked examples, practice, online collaboration, and learner control to optimize learning. The updated instructor's materials include a syllabus, assignments, storyboard projects, and test items that you can adapt to your own course schedule and students. Co-authored by the most productive instructional research scientist in the world, Dr. Richard E. Mayer, this book distills copious e-learning research into a practical manual for improving learning through optimal design and delivery. Get up to date on the latest e-learning research Adopt best practices for communicating information effectively Use evidence-based techniques to engage your learners Replace popular instructional ideas, such as learning styles with

evidence-based guidelines Apply evidence-based design techniques to optimize learning games e-Learning continues to grow as an alternative or adjunct to the classroom, and correspondingly, has become a focus among researchers in learning-related fields. New findings from research laboratories can inform the design and development of e-learning. However, much of this research published in technical journals is inaccessible to those who actually design e-learning material. By collecting the latest evidence into a single volume and translating the theoretical into the practical, e-Learning and the Science of Instruction has become an essential resource for consumers and designers of multimedia learning.

Physical Science Two Psychology Press
The technology behind computers, fiber optics, and networks did not originate in the minds of engineers attempting to build an Internet. The Internet is a culmination of intellectual work by thousands of minds spanning hundreds of years. We have built concept upon concept and technology upon technology to arrive at where we are today, in a world co

The Ocean and Cryosphere in a Changing Climate John Wiley & Sons
By 1979, we knew all that we know now about the science of climate change - what was happening, why it was happening, and how to stop it. Over the next ten years, we had the very real opportunity to stop it. Obviously, we failed. Nathaniel Rich's groundbreaking account of that failure - and how tantalizingly close we came to signing binding treaties that would have saved us all before the fossil fuels industry and politicians committed to anti-scientific denialism - is already a journalistic blockbuster, a full issue of the New York Times Magazine that has earned favorable comparisons to Rachel Carson's *Silent Spring* and John Hersey's *Hiroshima*. Rich has become an instant, in-demand expert and speaker. A major movie deal is already in place. It is the story, perhaps, that can shift the conversation. In the book *Losing Earth*, Rich is able to provide more of the context for what did - and didn't - happen in the 1980s and, more important, is able to carry the story fully into the present day and wrestle with what those past failures mean for us in 2019. It is not

just an agonizing revelation of historical missed opportunities, but a clear-eyed and eloquent assessment of how we got to now, and what we can and must do before it's truly too late.

Inadequate Equilibria (Draft Version)
Lulu.com

This thorough revision and update of the popular second edition contains everything the student needs to know about the psychology of language: how we understand, produce, and store language.

The Handbook of Logistics and Distribution Management National Academies Press

Astronomy is written in clear non-technical language, with the occasional touch of humor and a wide range of clarifying illustrations. It has many analogies drawn from everyday life to help non-science majors appreciate, on their own terms, what our modern exploration of the universe is revealing. The book can be used for either a one-semester or two-semester introductory course (bear in mind, you can customize your version and include only those chapters or sections you will be teaching.) It is made available free of charge in electronic form (and low

cost in printed form) to students around the world. If you have ever thrown up your hands in despair over the spiraling cost of astronomy textbooks, you owe your students a good look at this one. Coverage and Scope Astronomy was written, updated, and reviewed by a broad range of astronomers and astronomy educators in a strong community effort. It is designed to meet scope and sequence requirements of introductory astronomy courses nationwide. Chapter 1: Science and the Universe: A Brief Tour Chapter 2: Observing the Sky: The Birth of Astronomy Chapter 3: Orbits and Gravity Chapter 4: Earth, Moon, and Sky Chapter 5: Radiation and Spectra Chapter 6: Astronomical Instruments Chapter 7: Other Worlds: An Introduction to the Solar System Chapter 8: Earth as a Planet Chapter 9: Cratered

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26: Galaxies Chapter 27: Active Galaxies, Quasars, and Supermassive Black Holes Chapter 28: The Evolution and Distribution of Galaxies Chapter 29: The Big Bang Chapter 30: Life in the Universe Appendix A: How to Study for Your Introductory Astronomy Course Appendix B: Astronomy Websites, Pictures, and Apps Appendix C: Scientific Notation Appendix D: Units Used in Science Appendix E: Some Useful Constants for Astronomy Appendix F: Physical and Orbital Data for the Planets Appendix G: Selected Moons of the Planets Appendix H: Upcoming Total Eclipses Appendix I: The Nearest Stars, Brown Dwarfs, and White Dwarfs Appendix J: The Brightest Twenty Stars Appendix K: The Chemical Elements Appendix L: The Constellations Appendix M: Star Charts and Sky Event Resources

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