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Technological Slavery (Large Print 16pt) - Theodore J. Kaczynski 2011-02

Theodore Kaczynski saw violent collapse as the only way to bring down the techno-industrial system, and in more than a decade of mail bomb terror he killed three people and injured 23 others. One does not need to support the actions that landed Kaczynski in supermax prison to see the value of his essays disabusing the notion of heroic technology while revealing the manner in which it is destroying the planet. For the first time, readers will have an uncensored personal account of his anti-technology philosophy, including a corrected version of the notorious "Unabomber Manifesto," Kaczynski, s critique of anarcho-primitivism, and essays regarding "the Coming Revolution."

Uncovering Student Ideas in Life Science - Page Keeley 2011

Author Page Keeley continues to provide KOC012 teachers with her highly usable and popular formula for uncovering and addressing the preconceptions that students bring to the classroom. The formative assessment probe in this first book devoted exclusively to life science in her Uncovering Student Ideas in Science series. Keeley addresses the topics of life and its diversity; structure and function; life processes and needs of living things; ecosystems and change; reproduction, life cycles, and heredity; and human biology."

Personality Theories Workbook - Donna Musialowski Ashcraft 2002-06

This unique workbook was written for the undergraduate Personality course where professors are looking for activities to help students learn and apply personality theories to real-life examples. The workbook is geared toward personality courses that are theories-based, as opposed to research-based. Because the cases explored are those based on normal behavior (as opposed to abnormal behavior), this workbook is especially useful. While most personality texts present the major concepts of personality theories, they don't help students apply the theories they have learned or to use the theories to understand other examples on their own. This workbook will help students do just that and is the perfect complement to any Personality text.

Is There an Engineer Inside You? - Celeste Baine 2002

Turn yourself into a top-notch engineering student and become a successful engineer with the ideas and information in this one-of-a-kind resource. Get yourself on the path to a challenging, rewarding, and prosperous career as an engineer by getting inside each discipline, learning the differences and making educated choices. Updated and now covering 27 different branches of engineering, "Is There an Engineer Inside You?" is packed with suggestions and has tremendous advice on thriving in an engineering student environment.

Information Needs of Communities - Steven Waldman 2011-09

In 2009, a bipartisan Knight Commission found that while the broadband age is enabling an info. and commun. renaissance, local communities in particular are being unevenly served with critical info. about local issues. Soon after the Knight Commission delivered its findings, the FCC initiated a working group to identify crosscurrent and trend, and make recommendations on how the info. needs of communities can be met in a broadband world. This report by the FCC Working Group on the Info. Needs of Communities addresses the rapidly changing media landscape in a broadband age. Contents: Media Landscape; The Policy and Regulatory Landscape; Recommendations. Charts and tables. This is a print on demand report. *Imagining Urban Futures* - Carl Abbott 2016-09-13

Carl Abbott, who has taught urban studies and urban planning in five decades, brings together urban studies and literary studies to examine how fictional cities in work by authors as different as E. M. Forster, Isaac Asimov, Kim Stanley Robinson, and China Miéville might help us to envision an urban future that is viable and resilient. *Imagining Urban Futures* is a remarkable treatise on what is best and strongest in urban theory and practice today, as refracted and intensely imagined in science fiction. As the human population grows, we can envision an increasingly urban society. Shifting weather patterns, rising sea levels, reduced access to resources, and a host of other issues will radically impact urban environments, while technology holds out the dream of cities beyond Earth. Abbott delivers a compelling critical discussion of science fiction cities found in literary works, television programs, and films of many eras from Metropolis to Blade Runner and Soylent Green to The Hunger Games, among many others.

ASVAB For Dummies - Jennifer Lawler 2003-01-31

If you want to get into the military, you have to take the Armed Services Vocational Battery (ASVAB). Anyone eligible for military service can take the ASVAB, so you can also use the ASVAB for other purposes, such as finding out what you're good at, in case you want to attend vocational school or college. In addition, you can also use the test to help you better understand your skills, for when you enter the job market. And the best thing is, it absolutely free. And while the ASVAB may not be rocket science, it can be very tricky and you don't want to tackle it without some help. With this book as your guide, you'll quickly gain the knowledge and confidence you need to pass the ASVAB with flying colors. Written by a professional test-prep coach and a retired military man, it arms you with: A comprehensive review of all test subjects Practice problems to sharpen your skills Three complete sample tests Guidance on which tests are important to your military career Study techniques that will give you a competitive edge Tips on how to compute your scores Information on the scores required for specific military jobs ASVAB For Dummies provides in-depth coverage of all ten ASVAB subsets. You get clear easy-to-understand reviews of all the basic concepts, formulas, and skills you need to answer every type of question in every subset. And you get dozens of mini-tests and practice problems that help you understand what areas you're strong in and which ones still need work. In not time, you'll: Pump up your vocabulary and reading comprehension skills and ace the verbal subsets Bone up on arithmetic procedures and mathematics concepts—and wrack up the points Get into gear with basic mechanical, auto shop, and electronics knowledge and cruise through the tests Quickly review basic science principles and score like a rocket scientist! ASVAB For Dummies is your complete tactical guide to improving your scores—on the double.

SUBTLE ENERGY: A Physics Interacting Force -

A Wilderness So Immense - Jon Kukla 2009-09-23

In *A Wilderness so Immense*, historian Jon Kukla recounts the fascinating tale of the personal maneuverings, political posturing, and international intrigue that culminated in the greatest land deal in history. Spanning nearly two decades, Kukla's book brings to life a pageant of characters from Thomas Jefferson, James Monroe, and John Jay, to Napoleon and Carlos III of Spain and other colorful figures. Employing letters, memoirs, contemporary documents, and a host of other sources, Kukla creates a complete and compelling account of the Louisiana Purchase. From the hinterlands in Kentucky to the courts of Spain, France, and England to the halls of Congress, he re-creates the forces and personalities

that turned a struggle for navigation rights on the Mississippi into an event that doubled the size of the country and altered the destiny of the United States forever.

Composition and Sustainability - Derek Owens 2001

Owens works out his theories for higher education English departments, professors, and teachers. His main impetus is that English studies departments should focus on sustainability, meeting today's needs without jeopardizing the interests of future generations, in order to teach students the central role of language, composition, and literature to their lives.

The Democratization of Artificial Intelligence - Andreas Sudmann 2019-10-31

After a long time of neglect, Artificial Intelligence is once again at the center of most of our political, economic, and socio-cultural debates. Recent advances in the field of Artificial Neural Networks have led to a renaissance of dystopian and utopian speculations on an AI-rendered future. Algorithmic technologies are deployed for identifying potential terrorists through vast surveillance networks, for producing sentencing guidelines and recidivism risk profiles in criminal justice systems, for demographic and psychographic targeting of bodies for advertising or propaganda, and more generally for automating the analysis of language, text, and images. Against this background, the aim of this book is to discuss the heterogeneous conditions, implications, and effects of modern AI and Internet technologies in terms of their political dimension: What does it mean to critically investigate efforts of net politics in the age of machine learning algorithms?

The Rise of the Robots - Martin Ford 2015-09-03

Intelligent algorithms are already well on their way to making white collar jobs obsolete: travel agents, data-analysts, and paralegals are currently in the firing line. In the near future, doctors, taxi-drivers and ironically even computer programmers are poised to be replaced by 'robots'. Without a radical reassessment of our economic and political structures, we risk the very implosion of the capitalist economy itself. In *The Rise of the Robots*, technology expert Martin Ford systematically outlines the achievements of artificial intelligence and uses a wealth of economic data to illustrate the terrifying societal implications. From health and education to finance and technology, his warning is stark - all jobs that are on some level routine are likely to eventually be automated, resulting in the death of traditional careers and a hollowed-out middle class. The robots are coming and we have to decide - now - whether the future will bring prosperity or catastrophe.

The Carbon Cycle - T. M. L. Wigley 2005-08-22

Reducing carbon dioxide (CO₂) emissions is imperative to stabilizing our future climate. Our ability to reduce these emissions combined with an understanding of how much fossil-fuel-derived CO₂ the oceans and plants can absorb is central to mitigating climate change. In *The Carbon Cycle*, leading scientists examine how atmospheric carbon dioxide concentrations have changed in the past and how this may affect the concentrations in the future. They look at the carbon budget and the "missing sink" for carbon dioxide. They offer approaches to modeling the carbon cycle, providing mathematical tools for predicting future levels of carbon dioxide. This comprehensive text incorporates findings from the recent IPCC reports. New insights, and a convergence of ideas and views across several disciplines make this book an important contribution to the global change literature.

Islands in the Sky - Arthur C. Clarke 2012-11-30

The technologically groundbreaking novel of space exploration from the only science fiction author nominated for a Nobel Peace Prize. Roy Malcolm has always been fascinated by space travel. And when he wins a voyage to the Inner Space Station as a game show prize, he's sure it's the trip of a lifetime. Before long, Roy is taken in by the young crew—and shares their adventures and lives. One of Arthur C. Clarke's earliest novels, *Islands in the Sky* is particularly noteworthy for its description of geostationary communications satellites. While this technology was nonexistent during the writing of this book, it later became commonplace—and Clarke is credited with the first practical descriptions of such technology. This book is compelling not just as a fictional tale, but as an example of the prescient power of Clarke's vision. "[Clarke is] one of the truly prophetic figures of the space age." —*The New Yorker*

What Technology Wants - Kevin Kelly 2011-09-27

From the author of the New York Times bestseller *The Inevitable*— a sweeping vision of technology as a

living force that can expand our individual potential In this provocative book, one of today's most respected thinkers turns the conversation about technology on its head by viewing technology as a natural system, an extension of biological evolution. By mapping the behavior of life, we paradoxically get a glimpse at where technology is headed-or "what it wants." Kevin Kelly offers a dozen trajectories in the coming decades for this near-living system. And as we align ourselves with technology's agenda, we can capture its colossal potential. This visionary and optimistic book explores how technology gives our lives greater meaning and is a must-read for anyone curious about the future.

Actionable Gamification - Yu-kai Chou 2019-12-03

Learn all about implementing a good gamification design into your products, workplace, and lifestyle Key Features Explore what makes a game fun and engaging Gain insight into the Octalysis Framework and its applications Discover the potential of the Core Drives of gamification through real-world scenarios Book Description Effective gamification is a combination of game design, game dynamics, user experience, and ROI-driving business implementations. This book explores the interplay between these disciplines and captures the core principles that contribute to a good gamification design. The book starts with an overview of the Octalysis Framework and the 8 Core Drives that can be used to build strategies around the various systems that make games engaging. As the book progresses, each chapter delves deep into a Core Drive, explaining its design and how it should be used. Finally, to apply all the concepts and techniques that you learn throughout, the book contains a brief showcase of using the Octalysis Framework to design a project experience from scratch. After reading this book, you'll have the knowledge and skills to enable the widespread adoption of good gamification and human-focused design in all types of industries. What you will learn Discover ways to use gamification techniques in real-world situations Design fun, engaging, and rewarding experiences with Octalysis Understand what gamification means and how to categorize it Leverage the power of different Core Drives in your applications Explore how Left Brain and Right Brain Core Drives differ in motivation and design methodologies Examine the fascinating intricacies of White Hat and Black Hat Core Drives Who this book is for Anyone who wants to implement gamification principles and techniques into their products, workplace, and lifestyle will find this book useful.

The Global Carbon Cycle - Martin Heimann 2013-06-29

This book is the outcome of a NAiil Advanced Study Institute on the contemporary global carbon cycle, held in n Ciocco, Italy, September 8-20, 1991. The motivation for this ASI originated from recent controversial findings regarding the relative roles of the ocean and the land biota in the current global balance of atmospheric carbon dioxide. Consequently, the purpose of this institute was to review, among leading experts in the field, the multitude of known constraints on the present day global carbon cycle as identified by the fields of meteorology, physical and biological oceanography, geology and terrestrial biosphere sciences. At the same time the form of an Advanced Study Institute was chosen, thus providing the opportunity to convey the information in tutorial form across disciplines and to young researchers entering the field. The first three sections of this book contain the lectures held in II Ciocco. The first section reviews the atmospheric, large-scale global constraints on the present day carbon cycle including the emissions of carbon dioxide from fossil fuel use and it provides a brief look into the past. The second section discusses the role of the terrestrial biosphere and the third the role of the ocean in the contemporary global carbon cycle.

The Shallows - Nicholas G. Carr 2011

Is Google making us stupid? When Nicholas Carr posed that question, in a celebrated Atlantic Monthly cover story, he tapped into a well of anxiety about how the Internet is changing us. He also crystallized one of the most important debates of our time: As we enjoy the Net's bounties, are we sacrificing our ability to read and think deeply? Now, Carr expands his argument into the most compelling exploration of the Internet's intellectual and cultural consequences yet published. As he describes how human thought has been shaped through the centuries by tools of the mind from the alphabet to maps, to the printing press, the clock, and the computer Carr interweaves a fascinating account of recent discoveries in neuroscience by such pioneers as Michael Merzenich and Eric Kandel. Our brains, the historical and scientific evidence reveals, change in response to our experiences. The technologies we use to find, store, and share information can literally reroute our neural pathways. Building on the insights of thinkers from Plato to

McLuhan, Carr makes a convincing case that every information technology carries an intellectual ethic a set of assumptions about the nature of knowledge and intelligence. He explains how the printed book served to focus our attention, promoting deep and creative thought. In stark contrast, the Internet encourages the rapid, distracted sampling of small bits of information from many sources. Its ethic is that of the industrialist, an ethic of speed and efficiency, of optimized production and consumption and now the Net is remaking us in its own image. We are becoming ever more adept at scanning and skimming, but what we are losing is our capacity for concentration, contemplation, and reflection. Part intellectual history, part popular science, and part cultural criticism, *The Shallows* sparkles with memorable vignettes Friedrich Nietzsche wrestling with a typewriter, Sigmund Freud dissecting the brains of sea creatures, Nathaniel Hawthorne contemplating the thunderous approach of a steam locomotive even as it plumbs profound questions about the state of our modern psyche. This is a book that will forever alter the way we think about media and our minds."

Tomorrow Now - Bruce Sterling 2008-12-10

"Nobody knows better than Bruce Sterling how thin the membrane between science fiction and real life has become, a state he correctly depicts as both thrilling and terrifying in this frisky, literate, clear-eyed sketch of the next half-century. Like all of the most interesting futurists, Sterling isn't just talking about machines and biochemistry: what he really cares about are the interstices of technology with culture and human history." -Kurt Andersen, author of *Turn of the Century* Visionary author Bruce Sterling views the future like no other writer. In his first nonfiction book since his classic *The Hacker Crackdown*, Sterling describes the world our children might be living in over the next fifty years and what to expect next in culture, geopolitics, and business. Time calls Bruce Sterling "one of America's best-known science fiction writers and perhaps the sharpest observer of our media-choked culture working today in any genre." *Tomorrow Now* is, as Sterling wryly describes it, "an ambitious, sprawling effort in thundering futurist punditry, in the pulsing vein of the futurists I've read and admired over the years: H. G. Wells, Arthur C. Clarke, and Alvin Toffler; Lewis Mumford, Reyner Banham, Peter Drucker, and Michael Dertouzos. This book asks the future two questions: What does it mean? and How does it feel?" Taking a cue from one of William Shakespeare's greatest soliloquies, Sterling devotes one chapter to each of the seven stages of humanity: birth, school, love, war, politics, business, and old age. As our children progress through Sterling's Shakespearean life cycle, they will encounter new products; new weapons; new crimes; new moral conundrums, such as cloning and genetic alteration; and new political movements, which will augur the way wars of the future will be fought. Here are some of the author's predictions: • Human clone babies will grow into the bitterest and surliest adolescents ever. • Microbes will be more important than the family farm. • Consumer items will look more and more like cuddly, squeezable pets. • Tomorrow's kids will learn more from randomly clicking the Internet than they ever will from their textbooks. • Enemy governments will be nice to you and will badly want your tourist money, but global outlaws will scheme to kill you, loudly and publicly, on their Jihad TVs. • The future of politics is blandness punctuated with insanity. The future of activism belongs to a sophisticated, urbane global network that can make money—the Disney World version of Al Qaeda. *Tomorrow Now* will change the way you think about the future and our place in it. From the Hardcover edition.

[Case Studies in Science Education: The case reports - 1978](#)

Learning about Matter - 2013

"An activity-based volume that introduces early-level physical science concepts, including the properties of matter, structure of matter, states of matter, physical and chemical changes to matter, compounds and elements, and the periodic table. Features include a glossary, an additional resource list, and an index"--

Atomic Physics - Dmitry Budker 2004

Written as a collection of problems, hints and solutions, this book should provide help in learning about both fundamental and applied aspects of this vast field of knowledge, where rapid and exciting developments are taking place.

[Cryptonomicon](#) - Neal Stephenson 2009-03-17

With this extraordinary first volume in what promises to be an epoch-making masterpiece, Neal Stephenson

hacks into the secret histories of nations and the private obsessions of men, decrypting with dazzling virtuosity the forces that shaped this century. As an added bonus, the e-book edition of this New York Times bestseller includes an excerpt from Stephenson's new novel, *Seveneves*. In 1942, Lawrence Pritchard Waterhouse—mathematical genius and young Captain in the U.S. Navy—is assigned to detachment 2702. It is an outfit so secret that only a handful of people know it exists, and some of those people have names like Churchill and Roosevelt. The mission of Waterhouse and Detachment 2702—commanded by Marine Raider Bobby Shaftoe—is to keep the Nazis ignorant of the fact that Allied Intelligence has cracked the enemy's fabled Enigma code. It is a game, a cryptographic chess match between Waterhouse and his German counterpart, translated into action by the gung-ho Shaftoe and his forces. Fast-forward to the present, where Waterhouse's crypto-hacker grandson, Randy, is attempting to create a "data haven" in Southeast Asia—a place where encrypted data can be stored and exchanged free of repression and scrutiny. As governments and multinationals attack the endeavor, Randy joins forces with Shaftoe's tough-as-nails granddaughter, Amy, to secretly salvage a sunken Nazi submarine that holds the key to keeping the dream of a data haven afloat. But soon their scheme brings to light a massive conspiracy with its roots in Detachment 2702 linked to an unbreakable Nazi code called Arethusa. And it will represent the path to unimaginable riches and a future of personal and digital liberty...or to universal totalitarianism reborn. A breathtaking tour de force, and Neal Stephenson's most accomplished and affecting work to date, *Cryptonomicon* is profound and prophetic, hypnotic and hyper-driven, as it leaps forward and back between World War II and the World Wide Web, hinting all the while at a dark day-after-tomorrow. It is a work of great art, thought and creative daring; the product of a truly iconoclastic imagination working with white-hot intensity.

Policy Implications of Greenhouse Warming - National Academy of Engineering 1992-02-01

Global warming continues to gain importance on the international agenda and calls for action are heightening. Yet, there is still controversy over what must be done and what is needed to proceed. *Policy Implications of Greenhouse Warming* describes the information necessary to make decisions about global warming resulting from atmospheric releases of radiatively active trace gases. The conclusions and recommendations include some unexpected results. The distinguished authoring committee provides specific advice for U.S. policy and addresses the need for an international response to potential greenhouse warming. It offers a realistic view of gaps in the scientific understanding of greenhouse warming and how much effort and expense might be required to produce definitive answers. The book presents methods for assessing options to reduce emissions of greenhouse gases into the atmosphere, offset emissions, and assist humans and unmanaged systems of plants and animals to adjust to the consequences of global warming.

[Essentials of Teaching and Integrating Visual and Media Literacy](#) - Danilo M. Baylen 2015-04-23

This book focuses on how to effectively integrate the teaching and learning of visual and media literacies in K-12 and higher education. Not only does it address and review the elements and principles of visual design but also identifies, discusses and describes the value of media in learning diverse and challenging content across disciplines. Finally, this book provides a balanced treatment of how visual and media literacies support deep content learning, student engagement, critical thinking, creativity, problem solving, and production.

[Computer](#) - Herbert R. J. Grosch 1989

Learning and Behavior - Paul Chance 2013-03-01

LEARNING AND BEHAVIOR, Seventh Edition, is stimulating and filled with high-interest queries and examples. Based on the theme that learning is a biological mechanism that aids survival, this book embraces a scientific approach to behavior but is written in clear, engaging, and easy-to-understand language. Available with InfoTrac Student Collections <http://goengage.com/infotrac>. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

[Wandering Significance](#) - Mark Wilson 2008

"Mark Wilson presents a highly original and broad-ranging investigation of the way we get to grips with the world conceptually, and the way that philosophical problems commonly arise from this. He combines

traditional philosophical concerns about human conceptual thinking with illuminating data derived from a large variety of fields including physics and applied mathematics, cognitive psychology, and linguistics. Wandering Significance offers abundant new insights and perspectives for philosophers of language, mind, and science, and will also reward the interest of psychologists, linguists, and anyone curious about the mysterious ways in which useful language obtains its practical applicability."--Publisher's description.

The Design and Engineering of Curiosity - Emily Lakdawalla 2018-03-27

This book describes the most complex machine ever sent to another planet: Curiosity. It is a one-ton robot with two brains, seventeen cameras, six wheels, nuclear power, and a laser beam on its head. No one human understands how all of its systems and instruments work. This essential reference to the Curiosity mission explains the engineering behind every system on the rover, from its rocket-powered jetpack to its radioisotope thermoelectric generator to its fiendishly complex sample handling system. Its lavishly illustrated text explains how all the instruments work -- its cameras, spectrometers, sample-cooking oven, and weather station -- and describes the instruments' abilities and limitations. It tells you how the systems have functioned on Mars, and how scientists and engineers have worked around problems developed on a faraway planet: holey wheels and broken focus lasers. And it explains the grueling mission operations schedule that keeps the rover working day in and day out.

Paralysis Resource Guide - Sam Maddox 2020

Make: Electronics - Charles Platt 2015-09-07

"A hands-on primer for the new electronics enthusiast"--Cover.

The American Pageant - Thomas Andrew Bailey 1998

USAs historie indtil 1996

The Hearing Transformation - Melinda McBride 2018-12-03

A new collaboration by M.I.T and Harvard Medical School trained Neuroscientist and Clinical Audiologist Dr. Keith N. Darrow - one of the top specialists in his field who continues to reach great heights of quality health care and treatment in audiology -- and Dr. Melinda 'Sunni' McBride a leading woman in hearing healthcare treatment, is a brilliantly informative and profoundly practical book about hearing loss which reveals an innovative approach to medically treating the cognitive aspects of hearing loss for individuals of all ages. In this day and age of modern medicine, approximately 48 million people suffer from hearing loss and the associated cognitive impairments which go along with it. Yet, it doesn't need to be this way! Drs. Darrow and McBride have now joined the ranks of successful authors who care about your physical and mental health as you age. They always say, "Aging is inevitable, but decline is optional." The Hearing Transformation is set to be a game changer as those affected by hearing loss learn the correlation between it and the mind-robbing diseases of dementia, depression, social isolation and a sedentary lifestyle. These authors, between their numerous years of continuing education, practice in their field and research, are determined to reveal the science to maintaining independence and increasing social engagement by bettering your hearing. Their passion, training and determination have led them to teach you about the proven benefits of NeuroTechnology(tm). In this groundbreaking book, Dr. Keith N. Darrow and Dr. Melinda McBride, AuD, document ways to reduce the risks of developing dementia and exposes the devastating impacts of hearing loss if left unchecked. He presents a comprehensive, step-by-step guide to better hearing, increasing cognitive function, increasing socialization and maximizing your quality of life. They offer the value behind NeuroTechnology(tm), which is at the heart of a more comfortable, healthier way of living with the daily challenges of aging and hearing loss. And, they challenge some common myths about aging and dementia in correlation to hearing loss. This book is packed with information for those who want to learn how to live a better, more active, more engaged lifestyle regardless of age. Hearing is what connects us to others. It is the building block to communication in our personal and professional lives. You and your loved ones can break free from the stresses of hearing loss and avoid the unnecessary consequences of leaving it untreated. As science is helping us to live longer lives, we need to be best prepared for the challenges that hearing loss and dementia can have on our golden years. Using Drs. Darrow and McBride's information and proven methods, you can once again achieve peak performance in your life. Transform Your Life is the only book you will ever need to learn all you need to know about this

subject.

The Psychology of Everyday Things - Donald A. Norman 1990-05-01

Using Technology with Classroom Instruction that Works - Howard Pitler 2012

Learn how to improve instruction by * Collecting the right data--the right way. * Incorporating relevant data into everyone's daily life. * Resisting the impulse to set brand-new goals every year. * Never settling for "good enough." * Anticipating changes--big and small, local and federal. * Collaborating and avoiding privatized practice. * Involving all stakeholders in identifying problems, setting goals, and analyzing data. * Agreeing on what constitutes high-quality instruction and feedback. The challenge is to understand that data--not intuition or anecdotal reports--are tools to be used in getting better at teaching students. And teaching students effectively is what schools are all about. Following the guidance in this book, overcome uncertainty and concerns about data as you learn to collect and analyze both soft and hard data and use their secrets for instructional improvement in your school.

Stable Isotope Ecology - Brian Fry 2007-01-15

A solid introduction to stable isotopes that can also be used as an instructive review for more experienced researchers and professionals. The book approaches the use of isotopes from the perspective of ecological and biological research, but its concepts can be applied within other disciplines. A novel, step-by-step spreadsheet modeling approach is also presented for circulating tracers in any ecological system, including any favorite system an ecologist might dream up while sitting at a computer. The author's humorous and lighthearted style painlessly imparts the principles of isotope ecology. The online material contains color illustrations, spreadsheet models, technical appendices, and problems and answers.

Ilium - Dan Simmons 2009-10-13

The Trojan War rages at the foot of Olympos Mons on Mars -- observed and influenced from on high by Zeus and his immortal family -- and twenty-first-century professor Thomas Hockenberry is there to play a role in the insidious private wars of vengeful gods and goddesses. On Earth, a small band of the few remaining humans pursues a lost past and devastating truth -- as four sentient machines depart from Jovian space to investigate, perhaps terminate, the potentially catastrophic emissions emanating from a mountaintop miles above the terraformed surface of the Red Planet.

Future Wise - David Perkins 2014-08-04

How to teach big understandings and the ideas that matter most Everyone has an opinion about education, and teachers face pressures from Common Core content standards, high-stakes testing, and countless other directions. But how do we know what today's learners will really need to know in the future? Future Wise: Educating Our Children for a Changing World is a toolkit for approaching that question with new insight. There is no one answer to the question of what's worth teaching, but with the tools in this book, you'll be one step closer to constructing a curriculum that prepares students for whatever situations they might face in the future. K-12 teachers and administrators play a crucial role in building a thriving society. David Perkins, founding member and co-director of Project Zero at Harvard's Graduate School of Education, argues that curriculum is one of the most important elements of making students ready for the world of tomorrow. In Future Wise, you'll learn concepts, curriculum criteria, and techniques for prioritizing content so you can guide students toward the big understandings that matter. Understand how learners use knowledge in life after graduation Learn strategies for teaching critical thinking and addressing big questions Identify top priorities when it comes to disciplines and content areas Gain curriculum design skills that make the most of learning across the years of education Future Wise presents a brand new framework for thinking about education. Curriculum can be one of the hardest things for teachers and administrators to change, but David Perkins shows that only by reimagining what we teach can we lead students down the road to functional knowledge. Future Wise is the practical guidebook you need to embark on this important quest.

Essentials of Metaheuristics (Second Edition) - Sean Luke 2012-12-20

Interested in the Genetic Algorithm? Simulated Annealing? Ant Colony Optimization? Essentials of Metaheuristics covers these and other metaheuristics algorithms, and is intended for undergraduate students, programmers, and non-experts. The book covers a wide range of algorithms, representations,

selection and modification operators, and related topics, and includes 71 figures and 135 algorithms great and small. Algorithms include: Gradient Ascent techniques, Hill-Climbing variants, Simulated Annealing, Tabu Search variants, Iterated Local Search, Evolution Strategies, the Genetic Algorithm, the Steady-State Genetic Algorithm, Differential Evolution, Particle Swarm Optimization, Genetic Programming variants, One- and Two-Population Competitive Coevolution, N-Population Cooperative Coevolution, Implicit Fitness Sharing, Deterministic Crowding, NSGA-II, SPEA2, GRASP, Ant Colony Optimization variants, Guided Local Search, LEM, PBIL, UMDA, cGA, BOA, SAMUEL, ZCS, XCS, and XCSF.

TIPERs - C. J. Hieggelke 2013-12-17

TIPERs: Sensemaking Tasks for Introductory Physics gives introductory physics students the type of

practice they need to promote a conceptual understanding of problem solving. This supplementary text helps students to connect the physical rules of the universe with the mathematical tools used to express them. The exercises in this workbook are intended to promote sensemaking. The various formats of the questions are difficult to solve just by using physics equations as formulas. Students will need to develop a solid qualitative understanding of the concepts, principles, and relationships in physics. In addition, they will have to decide what is relevant and what isn't, which equations apply and which don't, and what the equations tell one about physical situations. The goal is that when students are given a physics problem where they are asked solve for an unknown quantity, they will understand the physics of the problem in addition to finding the answer.