Our Solar System Wikispaces

Principles of Solar Gas Turbines for Electricity GenerationNext Time You See the MoonCosmigraphicsProgram EarthDiscipline-Based Education ResearchIntroduction to Civil Engineering SystemsCreativity and Children's Literature: New Ways to Encourage Divergent ThinkingE-learning MethodologiesCelestial DelightsComets, Stars, the Moon, and MarsAdvances in Concentrating Solar Thermal Research and TechnologyThe School Leader's Guide to Social MediaUsing Technology with Classroom Instruction that WorksWhat Do Science, Technology, and Innovation Mean from Africa?Cases on 3D Technology Application and Integration in EducationWorld HistoryTowards Sustainable InnovationLearning FuturesBig Data Analytics: Systems, Algorithms, ApplicationsAplusphysicsThe Times IndexTeaching for Wisdom, Intelligence, Creativity, and SuccessEducational TechnologyMission: MarsWorld of GeekcraftReaching for the MoonNanovateA Handbook for Classroom Instruction That WorksReligion and Transhumanism: The Unknown Future of Human EnhancementThe Science of AvatarObserving the Solar SystemDistance Education for Teacher TrainingTouring the Universe through BinocularsEvaluating Learning EnvironmentsGryphonAutonomous Vehicle TechnologyTransition to SustainabilitySecrets In the Solar System : Gatekeepers On EarthDance to the Tune of LifeStar Climbing

Principles of Solar Gas Turbines for Electricity Generation

This fascinating book will stay with children every time they gaze up at the night sky. Through vivid pictures and engaging explanations, children will learn about many of the Moon's mysteries: what makes it look like a silvery crescent one time and a chalk-white ball a few nights later, why it sometimes appears in the daytime, where it gets its light, and how scientists can predict its shape on your birthday a thousand years from now. Next Time You See the Moon is an ideal way to explain the science behind the shape of the Moon and bring about an evening outing no child—or grown-up—will soon forget. Awaken a sense of wonder in a child with the Next Time You See series from NSTA Kids. The books will inspire elementary-age children to experience the enchantment of everyday phenomena such as sunsets, seashells, fireflies, pill bugs, and more. Free supplementary activities are available on the NSTA website. Especially designed to be experienced with an adult—be it a parent, teacher, or friend—Next Time You See books serve as a reminder that you don't have to look far to find something remarkable in nature.

Next Time You See the Moon

Written by a well-known and experienced amateur astronomer, this is a practical primer for all aspiring observers of the planets and other Solar System objects.

Whether you are a beginner or more advanced astronomer, you will find all you need in this book to help develop your knowledge and skills and move on to the next level of observing. This up-to-date, self-contained guide provides a detailed and wide-ranging background to Solar System astronomy, along with extensive practical advice and resources. Topics covered include: traditional visual observing techniques using telescopes and ancillary equipment; how to go about imaging astronomical bodies; how to conduct measurements and research of scientifically useful quality; the latest observing and imaging techniques. Whether your interests lie in observing aurorae, meteors, the Sun, the Moon, asteroids, comets, or any of the major planets, you will find all you need here to help you get started.

Cosmigraphics

Sensors are everywhere. Small, flexible, economical, and computationally powerful, they operate ubiquitously in environments. They compile massive amounts of data, including information about air, water, and climate. Never before has such a volume of environmental data been so broadly collected or so widely available. Grappling with the consequences of wiring our world, Program Earth examines how sensor technologies are programming our environments. As Jennifer Gabrys points out, sensors do not merely record information about an environment. Rather, they generate new environments and environmental relations. At the same time, they give a voice to the entities they monitor: to

animals, plants, people, and inanimate objects. This book looks at the ways in which sensors converge with environments to map ecological processes, to track the migration of animals, to check pollutants, to facilitate citizen participation, and to program infrastructure. Through discussing particular instances where sensors are deployed for environmental study and citizen engagement across three areas of environmental sensing, from wild sensing to pollution sensing and urban sensing, Program Earth asks how sensor technologies specifically contribute to new environmental conditions. What are the implications for wiring up environments? How do sensor applications not only program environments, but also program the sorts of citizens and collectives we might become? Program Earth suggests that the sensor-based monitoring of Earth offers the prospect of making new environments not simply as an extension of the human but rather as new "technogeographies" that connect technology, nature, and people.

Program Earth

Since 1957, robotic space probes have visited all the planets in the Solar System. Is it just the case that all they have found are uninteresting collections of gas, rocks, ice and dust? This book will "take you on a journey" to the Moon, Mars, Saturn and the Sun, to view some of the anomalies that, it would appear, taxpayer-funded space agencies have ignored or even lied about. This book collects together, for the first time anywhere, fully-referenced pictures and data from over

50 years of space missions. It includes over 350 images, and some detailed explanations and commentary. The book asks what would happen if scientists discovered irrefutable evidence of past or present extra-terrestrial life in the Solar System? Would they "tell us the truth, the whole truth and nothing but the truth" about such a discovery? Or, would the "scientific technological elite" mentioned in Eisenhower's final address to the USA, become the "gatekeepers" of "Secrets in the Solar System?"

Discipline-Based Education Research

Offers a look at what it will take to send humans to Mars, exploring the latest designs in spacesuits and rovers, how microgravity works, and what astronauts can expect to encounter as they travel and when they land.

Introduction to Civil Engineering Systems

This comprehensive work takes you on a personal tour of the universe using nothing more than a pair of binoculars. More comprehensive than any book currently available, it starts with Earth's nearest neighbor, the moon, and then goes on to explore each planet in the solar system, asteroids, meteors, comets and the sun. Following this, the reader is whisked away into deep space to explore

celestial bodies including stars that are known and many sights less familiar. The final chapter includes a detailed atlas of deep-sky objects visible through binoculars. The appendices include guidance on how to buy, care for and maintain astronomical binoculars, tips and hints on using them, and detailed information on several home-made binocular mounts.

Creativity and Children's Literature: New Ways to Encourage Divergent Thinking

The environmental movement has made huge progress over the last decades. Among others, it has raised awareness of challenges facing humanity, helped develop a critical mass of policies, and worked towards the implementation of many of these policies in collaboration with other stakeholders. Now, however, we are at a turning point in the history of the global environmental movement. In order to rise to challenges of the twenty-first century such as climate change and peak oil, it will not be possible to do business as usual; a step change will be needed. As IUCN celebrates its 60th anniversary, and marks six decades of global conservation achievement, it is also taking stock of the urgent challenges facing life on earth and reviewing its strategies. The key to future conservation action will lie in reconciling the needs of the environment with those of society in a manner that is equitable and just, and in promoting sustainable lifestyles and livelihoods as

well as protecting endangered species and spaces. This document outlines IUCN's Future of Sustainability initiative, the rationale for its implementation, and describes how the conservation movement can play new and decisive roles in the transition to sustainability.

E-learning Methodologies

World History: Cultures, States, and Societies to 1500 offers a comprehensive introduction to the history of humankind from prehistory to 1500. Authored by six USG faculty members with advance degrees in History, this textbook offers up-to-date original scholarship. It covers such cultures, states, and societies as Ancient Mesopotamia, Ancient Israel, Dynastic Egypt, India's Classical Age, the Dynasties of China, Archaic Greece, the Roman Empire, Islam, Medieval Africa, the Americas, and the Khanates of Central Asia. It includes 350 high-quality images and maps, chronologies, and learning questions to help guide student learning. Its digital nature allows students to follow links to applicable sources and videos, expanding their educational experience beyond the textbook. It provides a new and free alternative to traditional textbooks, making World History an invaluable resource in our modern age of technology and advancement.

Celestial Delights

The automotive industry appears close to substantial change engendered by "self-driving" technologies. This technology offers the possibility of significant benefits to social welfare—saving lives; reducing crashes, congestion, fuel consumption, and pollution; increasing mobility for the disabled; and ultimately improving land use. This report is intended as a guide for state and federal policymakers on the many issues that this technology raises.

Comets, Stars, the Moon, and Mars

First published in 2002. Routledge is an imprint of Taylor & Francis, an informa company.

Advances in Concentrating Solar Thermal Research and Technology

Designed as a self-study resource, this handbook guides readers through nine categories of instructional strategies proven to improve student achievement. Sections 1-9 address the nine categories of instructional strategies that can be applied to all types of content, at all grade levels, and with all types of students: Identifying similarities and differences; Summarizing and note taking; Reinforcing effort and providing recognition; Homework and practice; Representing knowledge;

Learning groups; Setting objectives and providing feedback; Generating and testing hypotheses; and Cues, questions, and advance organizers. For each of the nine categories, exercises, brief questionnaires, tips and recommendations, samples, worksheets, rubrics, and other tools are provided. For elementary and middle school teachers, counselors, evaluators, and administrators.

The School Leader's Guide to Social Media

Using Technology with Classroom Instruction that Works

Blast off with Douglas Florian's new high-flying compendium, which features twenty whimsical poems about space. From the moon to the stars, from the Earth to Mars, here is an exuberant celebration of our celestial surroundings that's certain to become a universal favorite among aspiring astronomers everywhere. Includes die-cut pages and a glossary of space terms.

What Do Science, Technology, and Innovation Mean from Africa?

After decades of research and development, concentrating solar thermal (CST)

power plants (also known as concentrating solar power (CSP) and as Solar Thermal Electricity or STE systems) are now starting to be widely commercialized. Indeed, the IEA predicts that by 2050, with sufficient support over ten percent of global electricity could be produced by concentrating solar thermal power plants. However, CSP plants are just but one of the many possible applications of CST systems. Advances in Concentrating Solar Thermal Research and Technology provides detailed information on the latest advances in CST systems research and technology. It promotes a deep understanding of the challenges the different CST technologies are confronted with, of the research that is taking place worldwide to address those challenges, and of the impact that the innovation that this research is fostering could have on the emergence of new CST components and concepts. It is anticipated that these developments will substantially increase the cost-competiveness of commercial CST solutions and reshape the technological landscape of both CST technologies and the CST industry. After an introductory chapter, the next three parts of the book focus on key CST plant components, from mirrors and receivers to thermal storage. The final two parts of the book address operation and control and innovative CST system concepts. Contains authoritative reviews of CST research taking place around the world Discusses the impact this research is fostering on the emergence of new CST components and concepts that will substantially increase the cost-competitiveness of CST power Covers both major CST plant components and system-wide issues

Cases on 3D Technology Application and Integration in Education

A New York Times Notable Book "A warmly disposed yet unsentimental chronicler of American lives. Some [stories are] poignant and disturbing, and all of them highly readable." --The New York Times Book Review "One of our best storytellers." --San Francisco Chronicle "Baxter lovingly teases anguish, humor, and heart-rending beauty out of clear, unaffected sentences." --The Washington Post Since the publication of his first story collection in 1984, Charles Baxter has slowly gained a reputation as one of America's finest short story writers. Gryphon brings together sixteen classics with seven new stories, giving us the most complete portrait of his achievement. From the bestselling author of The Feast of Love.

World History

This book presents an integrated systems approach to the evaluation, analysis, design, and maintenance of civil engineering systems. Addressing recent concerns about the world's aging civil infrastructure and its environmental impact, the author makes the case for why any civil infrastructure should be seen as part of a larger whole. He walks readers through all phases of a civil project, from feasibility assessment to construction to operations, explaining how to evaluate tasks and

challenges at each phase using a holistic approach. Unique coverage of ethics, legal issues, and management is also included.

Towards Sustainable Innovation

Today's students need to be able to do more than score well on tests—they must be creative thinkers and problem solvers. The tools in this book will help teachers and parents start students on the path to becoming innovative, successful individuals in the 21st century workforce. • Demonstrates how to use children's literature specifically to foster divergent thinking in students in school and at home • Provides specific suggestions for activities and example projects relevant to individual books as well as to entire teaching units • Supplies bibliographies of hundreds of recently published children's books recommended for children of different age levels • Cites research findings that underscore the vital importance of divergent thinking in today's world and its importance to the business community

Learning Futures

Geek meets craft in this fun collection of 25 kooky projects for geeks of any affiliation, from D&D dice earrings, Star Trek pillows, and Super Mario cross-stitch

to Star Wars terrariums, a Morse code quilt, and much more! Organized by difficulty from "Not a Jedi Yet" to "Warp Speed," World of Geekcraft covers a range of popular crafting techniques including beading, quilting, appliqué, embroidery, and needle felting. Best of all, it's easy to get started with step-by-step instructions and handy templates included in the back of the book. With lots of photos and plenty of geekery throughout, this one-of-a-kind book shows that geek and craft go together likepixels and cross-stitch!

Big Data Analytics: Systems, Algorithms, Applications

The National Science Foundation funded a synthesis study on the status, contributions, and future direction of discipline-based education research (DBER) in physics, biological sciences, geosciences, and chemistry. DBER combines knowledge of teaching and learning with deep knowledge of discipline-specific science content. It describes the discipline-specific difficulties learners face and the specialized intellectual and instructional resources that can facilitate student understanding. Discipline-Based Education Research is based on a 30-month study built on two workshops held in 2008 to explore evidence on promising practices in undergraduate science, technology, engineering, and mathematics (STEM) education. This book asks questions that are essential to advancing DBER and broadening its impact on undergraduate science teaching and learning. The book provides empirical research on undergraduate teaching and learning in the

sciences, explores the extent to which this research currently influences undergraduate instruction, and identifies the intellectual and material resources required to further develop DBER. Discipline-Based Education Research provides guidance for future DBER research. In addition, the findings and recommendations of this report may invite, if not assist, post-secondary institutions to increase interest and research activity in DBER and improve its quality and usefulness across all natural science disciples, as well as guide instruction and assessment across natural science courses to improve student learning. The book brings greater focus to issues of student attrition in the natural sciences that are related to the quality of instruction. Discipline-Based Education Research will be of interest to educators, policy makers, researchers, scholars, decision makers in universities, government agencies, curriculum developers, research sponsors, and education advocacy groups.

Aplusphysics

Featuring more than five hundred questions from past Regents exams with worked out solutions and detailed illustrations, this book is integrated with APlusPhysics.com website, which includes online questions and answer forums, videos, animations, and supplemental problems to help you master Regents Physics Essentials.

The Times Index

This book introduces readers from diverse backgrounds to the principles underlying nanotechnology, from devices to systems, while also describing in detail how businesses can use nanotechnology to redesign their products and processes, in order to have a clear edge over their competition. The authors include 75 case studies, describing in a highly-accessible manner, real nanotechnology innovations from 15 different industrial sectors. For each case study, the technology or business challenges faced by the company are highlighted, the type of nanotechnology adopted is defined, and the eventual economic and social impact is described. Introduces fundamentals of nanotechnology and its applications in a highly-accessible manner Includes 75 case studies of commercializing nanotechnology from 15 industrial sectors, including Automotive, Consumer Electronics, and Renewable Energy Enables nanotechnology experts to learn simple and important business concepts to facilitate the transfer of science to the market Introduces business owners to various means to resolve industrial challenges using nanotechnologies

Teaching for Wisdom, Intelligence, Creativity, and Success

In the twenty-first century, educators around the world are being told that they

need to transform education systems to adapt young people for the challenges of a global digital knowledge economy. Too rarely, however, do we ask whether this future vision is robust, achievable or even desirable, whether alternative futures might be in development, and what other possible futures might demand of education. Drawing on ten years of research into educational innovation and socio-technical change, working with educators, researchers, digital industries, students and policy-makers, this book questions taken-for-granted assumptions about the future of education. Arguing that we have been working with too narrow a vision of the future, Keri Facer makes a case for recognizing the challenges that the next two decades may bring, including: the emergence of new relationships between humans and technology the opportunities and challenges of aging populations the development of new forms of knowledge and democracy the challenges of climate warming and environmental disruption the potential for radical economic and social inequalities. This book describes the potential for these developments to impact critical aspects of education – including adult-child relationships, social justice, curriculum design, community relationships and learning ecologies. Packed with examples from around the world and utilising vital research undertaken by the author while Research Director at the UK's Futurelab, the book helps to bring into focus the risks and opportunities for schools, students and societies over the coming two decades. It makes a powerful case for rethinking the relationship between education and social and technological change, and presents a set of key strategies for creating schools better able to meet the emerging needs of their

students and communities. An important contribution to the debates surrounding educational futures, this book is compelling reading for all of those, including educators, researchers, policy-makers and students, who are asking the question 'how can education help us to build desirable futures for everyone in the context of social and technological change?'

Educational Technology

When he cannot sleep, a little boy imagines himself on a nighttime journey across the sky where he can run and dance with star constellations, including Leo the Lion, Pisces the Fish, and Cygnus the Swan.

Mission: Mars

The "E-Learning Methodologies" guide will support professionals involved in the design and development of e-learning projects and products. The guide reviews the basic concepts of e-learning with a focus on adult learning, and introduces the various activities and roles involved in an e-learning project. The guide covers methodologies and tips for creating interactive content and for facilitating online learning, as well as some of the technologies used to create and deliver e-learning.

World of Geekcraft

Collects illustrations and maps that visualize the vast expanse of the universe, chronicling three thousand years of human observation of the universe.

Reaching for the Moon

With sustainability having gained a lot of momentum over the last years and companies implementing strategies to create corporate sustainability, there are lots of opportunities for innovation. Thus, the two concepts of sustainability and innovation should not be considered separately – they are closely interlinked with one another. The main goal of sustainable innovation is to develop new products and technologies that have a positive impact on the company's triple-bottom-line. To meet this aim, they have to be ecologically and economically beneficial as well as socially balanced. In order to help companies to improve their sustainable innovation process practically, this book is structured into five possible phases of a sustainable innovation process: Awareness of a sustainability problem, Identification & Definition of the problem, Ideation & Evaluation of the solutions, Testing & Enrichment of the solutions, Implementation of the solutions & Green Marketing.

Nanovate

Celestial Delights is essentially a 'TV Guide' for teh sky. This will be its third edition. This title, which has aggregated sales of about 20,000 copies to date in its two previous editions and has found a niche with skygazers, is much awaited. Through extensive graphics integrated with an eight-year-long calendar of sky events, it provides a look at "don't miss" sky events, mostly for naked-eye and binocular observing. The book is organized by ease of observation - lunar phases and the brighter planets come first, while solar eclipses, the aurora, and comets come later. Celestial Delights also includes a hefty dose of sky lore, astronomical history, and clear overviews of current science. It provides a handy reference to upcoming naked-eye events, with information broken out in clear and simple diagrams and tables that are cross-referenced against a detailed almanac for each year covered. Most broad-ranging astronomy field guides focus on stars, constellations, and the deep sky, but tend to ignore planetary events, which are in by far the most widely observable aspects of the changing night sky. Celestial Delights puts a variety of information all in one place, presents it in a friendly way that does not require prior in-depth astronomical knowledge, but provides the context and historical background for understanding events that astronomical computer programs or web sites lack.

A Handbook for Classroom Instruction That Works

This book provides a comprehensive survey of techniques, technologies and applications of Big Data and its analysis. The Big Data phenomenon is increasingly impacting all sectors of business and industry, producing an emerging new information ecosystem. On the applications front, the book offers detailed descriptions of various application areas for Big Data Analytics in the important domains of Social Semantic Web Mining, Banking and Financial Services, Capital Markets, Insurance, Advertisement, Recommendation Systems, Bio-Informatics, the IoT and Fog Computing, before delving into issues of security and privacy. With regard to machine learning techniques, the book presents all the standard algorithms for learning – including supervised, semi-supervised and unsupervised techniques such as clustering and reinforcement learning techniques to perform collective Deep Learning. Multi-layered and nonlinear learning for Big Data are also covered. In turn, the book highlights real-life case studies on successful implementations of Big Data Analytics at large IT companies such as Google, Facebook, LinkedIn and Microsoft. Multi-sectorial case studies on domain-based companies such as Deutsche Bank, the power provider Opower, Delta Airlines and a Chinese City Transportation application represent a valuable addition. Given its comprehensive coverage of Big Data Analytics, the book offers a unique resource for undergraduate and graduate students, researchers, educators and IT professionals alike.

Religion and Transhumanism: The Unknown Future of Human Enhancement

The recent trend in innovative school design has provided exciting places to both learn and teach. New generation learning environments have encouraged educators to unleash responsive pedagogies previously hindered by traditional classrooms, and has allowed students to engage in a variety of learning experiences well beyond the traditional 'chalk and talk' common in many schools. These spaces have made cross-disciplinary instruction, collaborative learning, individualised curriculum, ubiquitous technologies, and specialised equipment more accessible than ever before. The quality of occupation of such spaces has also been encouraging. Many learning spaces now resemble places of collegiality, intellectual intrigue and comfort, as opposed to the restrictive and monotonous classrooms many of us experienced in years past. These successes, however, have generated a very real problem. Do these new generation learning environments actually work – and if so, in what ways? Are they leading to the sorts of improved experiences and learning outcomes for students they promise? This book describes strategies for assessing what is actually working. Drawing on the best thinking from our best minds – doctoral students tackling the challenge of isolating space as a variable within the phenomenon of contemporary schooling – Evaluating Learning Environments draws together thirteen approaches to learning

environment evaluation that capture the latest thinking in terms of emerging issues, methods and knowledge.

The Science of Avatar

Technology is ubiquitous, and its potential to transform learning is immense. The first edition of Using Technology with Classroom Instruction That Works answered some vital questions about 21st century teaching and learning: What are the best ways to incorporate technology into the curriculum? What kinds of technology will best support particular learning tasks and objectives? How does a teacher ensure that technology use will enhance instruction rather than distract from it? This revised and updated second edition of that best-selling book provides fresh answers to these critical questions, taking into account the enormous technological advances that have occurred since the first edition was published, including the proliferation of social networks, mobile devices, and web-based multimedia tools. It also builds on the up-to-date research and instructional planning framework featured in the new edition of Classroom Instruction That Works, outlining the most appropriate technology applications and resources for all nine categories of effective instructional strategies: * Setting objectives and providing feedback * Reinforcing effort and providing recognition * Cooperative learning * Cues, questions, and advance organizers * Nonlinguistic representations * Summarizing and note taking * Assigning homework and providing practice * Identifying

similarities and differences * Generating and testing hypotheses Each strategy-focused chapter features examples--across grade levels and subject areas, and drawn from real-life lesson plans and projects--of teachers integrating relevant technology in the classroom in ways that are engaging and inspiring to students. The authors also recommend dozens of word processing applications, spreadsheet generators, educational games, data collection tools, and online resources that can help make lessons more fun, more challenging, and--most of all--more effective.

Observing the Solar System

Audiences around the world have been enchanted by James Cameron's visionary Avatar, with its glimpse of the Na'vi on the marvelous world of Pandora. But the movie is not entirely a fantasy; there is a scientific rationale for much of what we saw on the screen, from the possibility of travel to other worlds, to the life forms seen on screen and the ecological and cybernetic concepts that underpin the 'neural networks' in which the Na'vi and their sacred trees are joined, as well as to the mind-linking to the avatars themselves. From popular science journalist and acclaimed science fiction author Stephen Baxter, THE SCIENCE OF AVATAR is a guide to the rigorous fact behind the fiction. It will enhance the readers' enjoyment of the movie experience by drawing them further into its imagined world.

Distance Education for Teacher Training

The aim of this book is to prepare students with knowledge and skills to understand the organizational needs and requirements of educational technology. Students should be able to use and manage both existing and emerging technologies effectively and be able to apply associated pedagogies to suit the environment, but also evaluate and manage technological advances of future and the requisite pedagogical shifts to achieve efficiency and effectiveness. The demand of educational technology has been rising steadily, primarily due to the fact that e-learning is a huge and significantly expanding world-wide industry. Commercial e-learning companies, training departments in large companies and organizations, computer software companies and educational institutions the world over employ large numbers of educational technology specialists. There is a strong demand for technologists who understand educational theories and for instructional designers and teachers who understand technologies. This book is targeted towards those who are looking for career in educational technology, instructional design, or media and information systems, or may want to continue their studies in graduate programs in learning and instructional technology, and those who are interested in becoming teacher in K-12 setting but need background in educational technology. This book will also act as a valuable resource in teacher education programs where primary focus on mainstream education and requires an authentic resource in instructional design and educational technology. Keeping

in mind the varied needs of the organizations, employees and potential students, this book adopts a competency approach to learning and assessment. The themes and topics take a multi-disciplinary approach, and are aimed at preparing students for competent and innovative educational technology professionals.

Touring the Universe through Binoculars

Social media has exploded onto American culture — including our schools — giving educators a unique opportunity to shape this phenomenon into a powerful tool for improving educational leadership practices. With real-world examples and practical tips, this essential guide shows school leaders how to address both the potential benefits and common concerns presented by social media. It is written in a clear, reader-friendly format, and covers important topics, including: Responding to student safety issues, such as cyberbullying and sexting Improving school management, communication, and professional growth Instructional innovation Twenty-first century learning Preparing for future social media trends This is a must-have resource for school leaders who want to stay current and provide the best possible educational environment for learning in the 21st century.

Evaluating Learning Environments

Indexes the Times and its supplements.

Gryphon

Clapperton Mavhunga's collection of essays about science, technology, and innovation (STI) from an African perspective opens with the idea, "Things do not (always) mean the same from everywhere; when we insist that only 'our' meaning is the meaning, we silence other people's meanings." Mavhunga and his contributors argue that our contemporary definitions of STI are those of countries and cultures that have acquired their dominance of others through global empires, and as a counter to that, Mavhunga seeks to put the concepts of STI into question, exploring what the technological, scientific, and innovative might mean from Africa in lieu of outside introductions or influences. We strongly feel that this book is suited to the Knowledge Unlatched program because of the difficulty of reaching markets and readers in Africa with print books. We feel unlatching would go a long way toward helping Mavhunga reach an important audience for this work that we have been previously unable to reach.

Autonomous Vehicle Technology

This is the first book dedicated to solar gas turbines, providing fundamental

knowledge and state-of-the-art developments in the field. A gas turbine is a heat engine in which a mixture of fuel and air is burned in a chamber that is an integral part of the flow circuit of the working fluid. The burnt gas mixture expands and turns the turbine, which can be connected to a generator for electricity production. Solar gas turbines offer an important alternative to conventional gas turbines driven by non-renewable, polluting fossil fuels such as diesel or natural gas. The book provides a comprehensive overview of the topic as well as numerous illustrations.

Transition to Sustainability

Should technology be used to improve human faculties such as cognition and longevity? This thought-provoking dialogue between "transhumanism" and religion examines enhancement technologies that could radically alter the human species. • Introduces some of the hardest and most pressing issues that will determine the future of the human race • Examines current scholarly questions and thoughts about transhumanism • Asks new questions relative to the intersection of human enhancement and religion • Explores what it means to be human in a technologically changing world

Secrets In the Solar System : Gatekeepers On Earth

The essential guide for teaching beyond the test! Students with strong higher-order thinking skills are more likely to become successful, lifelong learners. Based on extensive, collaborative research by leading authorities in the field, this book shows how to implement teaching and learning strategies that nurture intelligence, creativity, and wisdom. This practical teaching manual offers an overview of the WICS model—Wisdom, Intelligence, Creativity, Synthesized—which helps teachers foster students' capacities for effective learning and problem solving. Teachers will find examples for language arts, history, mathematics, and science in Grades K–12, as well as: Hands-on strategies for enhancing students' memory, analytical, creative, and practical skills Guidelines on teaching and assessing for successful intelligence Details on how to apply the model in the classroom Teacher reflection sections, suggested readings, and sample planning checklists Teaching for Wisdom, Intelligence, Creativity, and Success is ideal for educators seeking to broaden their teaching repertoire as they expand the skills and abilities of students at all levels.

Dance to the Tune of Life

I walked on the moon. This is my journey. But it didn't begin when I stepped on board Apollo 11 on July 1, 1969. It began the day I was born. Becoming an astronaut took more than education, discipline, and physical strength. It took years of determination and believing that any goal is possible—from riding a bike alone

across the George Washington Bridge at age ten to making a footprint on the Moon. I always knew the Moon was within my reach—and that I was ready to be on the team that would achieve the first landing. But it was still hard to believe when I took my first step onto the Moon's surface. We all have our own dreams. This is the story of how mine came true.

Star Climbing

Cases on 3D Technology Application and Integration in Education highlights the use of 3D technologies in the educational environment and the future prospects of adaption and evolution beyond the traditional methods of teaching. This comprehensive collection of research aims to provide instructors and researchers with a solid foundation of information on 3D technology.

ROMANCE ACTION & ADVENTURE MYSTERY & THRILLER BIOGRAPHIES & HISTORY CHILDREN'S YOUNG ADULT FANTASY HISTORICAL FICTION HORROR LITERARY FICTION NON-FICTION SCIENCE FICTION