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This edited volume provides a critical discussion of theoretical, methodological, and practical developments of contemporary forms of educational technologies. Specifically, the book discusses the use of contemporary technologies such as the Flipped Classroom (FC), Massive Open Online Course (MOOC), Social Media, Serious Educational Games (SEG), Wikis, innovative learning software tools, and learning analytic approach for making sense of big data. While some of these contemporary educational technologies have been touted as panaceas, researchers and developers have been

faced with enormous challenges in enhancing the use of these technologies to arouse student attention and improve persistent motivation, engagement, and learning. Hence, the book examines how contemporary technologies can engender student motivation and result in improved engagement and learning. Each chapter also discusses the road ahead and where appropriate, uses the current trend to predict future affordances of technologies.

This book provides an introduction to health interoperability and the main standards used. Health interoperability delivers health information where and when it is needed. Everybody stands to gain from safer more soundly based decisions and less duplication, delays, waste and errors. The third edition of Principles of Health Interoperability includes a new part on FHIR (Fast

Health Interoperability Resources), the most important new health interoperability standard for a generation. FHIR combines the best features of HL7's v2, v3 and CDA while leveraging the latest web standards and a tight focus on implementability. FHIR can be implemented at a fraction of the price of existing alternatives and is well suited for use in mobile phone apps, cloud communications and EHRs. The book is organised into four parts. The first part covers the principles of health interoperability, why it matters, why it is hard and why models are an important part of the solution. The second part covers clinical terminology and SNOMED CT. The third part covers the main HL7 standards: v2, v3, CDA and IHE XDS. The new fourth part covers FHIR and has been contributed by Grahame Grieve, the original FHIR

Just as the circle number π or the Euler constant e determines mathematics, fundamental constants of nature define the scales of the natural sciences. This book presents a new perspective by means of a few axioms and compares the resulting validity with experimental data. By the axiomatic approach Sommerfeld's mysterious fine-structure constant and Dirac's cosmic number are fixed as pure number constants. Thanks to these number constants, it is possible to calculate the value for the anomalous magnetic-moment of the electron in a simple way compared to QED calculations. With the same number constants it is also possible to calculate masses, partial lifetimes, magnetic-moments or charge radii of fundamental particles. The expressions used for the calculations, with few exceptions, yield

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values within the experimental error limits of the Particle Data Group. The author shows that the introduced number constants give even better predictions than the complicated QED calculations of today's doctrine. In the first part only experimental data from the literature for checking the postulates are used. In the second part the author explains electrical transport measurements with emergent behaviour, which were carried out in a professional environment.

Children are inherently musical. They respond to music and learn through music. Music expresses children's identity and heritage, teaches them to belong to a culture, and develops their cognitive well-being and inner self worth. As professional instructors, childcare workers, or students looking forward to a career working with children, we should continuously search for ways to tap into

children's natural reservoir of enthusiasm for singing, moving and experimenting with instruments. But how, you might ask? What music is appropriate for the children I'm working with? How can music help inspire a well-rounded child? How do I reach and teach children musically? Most importantly perhaps, how can I incorporate music into a curriculum that marginalizes the arts? This book explores a holistic, artistic, and integrated approach to understanding the developmental connections between music and children. This book guides professionals to work through music, harnessing the processes that underlie music learning, and outlining developmentally appropriate methods to understand the role of music in children's lives through play, games, creativity, and movement. Additionally, the book explores ways of applying music-

*making to benefit the whole child, i.e.,
socially, emotionally, physically,
cognitively, and linguistically.*

*Differentiating for Success with the
Young Adolescent (with CD-ROM)*

*A Structure for an Intelligence
Revolution*

Autonomous Vehicle Technology

The Physics of Music and Color

Teaching and Learning in Digital World

*Overcoming Students' Misconceptions in
Science*

*Connecting with Social Media to Drive
Change*

*This book discusses the
importance of identifying
and addressing
misconceptions for the
successful teaching and
learning of science across
all levels of science
education from elementary*

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school to high school. It suggests teaching approaches based on research data to address students' common misconceptions. Detailed descriptions of how these instructional approaches can be incorporated into teaching and learning science are also included. The science education literature extensively documents the findings of studies about students' misconceptions or alternative conceptions about various science concepts. Furthermore, some of the studies involve systematic approaches to not only creating but also implementing instructional

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programs to reduce the incidence of these misconceptions among high school science students. These studies, however, are largely unavailable to classroom practitioners, partly because they are usually found in various science education journals that teachers have no time to refer to or are not readily available to them. In response, this book offers an essential and easily accessible guide. This comprehensive resource for STEM teachers and students, outlines the various stages of large-scale research projects, enabling teachers to coach

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their students through the research process. This handbook provides enough detail to embolden all teachersOCoeven those who have never designed an experiment on their ownOCoto support student-researchers through the entire process of conducting experiments."
First published in 2002. Routledge is an imprint of Taylor & Francis, an informa company.

"What year are you preparing your students for? 1973? 1995? Can you honestly say that your school's curriculum and the program you use are preparing your students for 2015 or 2020? Are you even preparing them

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*for today?" With those provocative questions, author and educator Heidi Hayes Jacobs launches a powerful case for overhauling, updating, and injecting life into the K-12 curriculum. Sharing her expertise as a world-renowned curriculum designer and calling upon the collective wisdom of 10 education thought leaders, Jacobs provides insight and inspiration in the following key areas: * Content and assessment--How to identify what to keep, what to cut, and what to create, and where portfolios and other new kinds of assessment fit into the picture. * Program*

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*structures--How to improve our use of time and space and groupings of students and staff. * Technology--How it's transforming teaching, and how to take advantage of students' natural facility with technology. * Media literacy--The essential issues to address, and the best resources for helping students become informed users of multiple forms of media. * Globalization--What steps to take to help students gain a global perspective. * Sustainability--How to instill enduring values and beliefs that will lead to healthier local, national, and global communities. **

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Habits of mind--The thinking habits that students, teachers, and administrators need to develop and practice to succeed in school, work, and life. The answers to these questions and many more make Curriculum 21 the ideal guide for transforming our schools into what they must become: learning organizations that match the times in which we live.

The Visual Made Verbal

SNOMED CT, HL7 and FHIR

Music and the Child

Strategies and Perspectives from Malaysia

Towards Sustainable Innovation

Transitions and Tools that Support Scholars' Success

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Tactics, Tools, and Strategies for Business Success

From preeminent math personality and author of *The Joy of x*, a brilliant and endlessly appealing explanation of calculus - how it works and why it makes our lives immeasurably better. Without calculus, we wouldn't have cell phones, TV, GPS, or ultrasound. We wouldn't have unraveled DNA or discovered Neptune or figured out how to put 5,000 songs in your pocket. Though many of us were scared away from this essential, engrossing subject in high school and college, Steven Strogatz's brilliantly creative, down to earth history shows that calculus is not about complexity; it's about simplicity. It harnesses an unreal number--infinity--to tackle real world problems, breaking them

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down into easier ones and then reassembling the answers into solutions that feel miraculous. Infinite Powers recounts how calculus tantalized and thrilled its inventors, starting with its first glimmers in ancient Greece and bringing us right up to the discovery of gravitational waves (a phenomenon predicted by calculus). Strogatz reveals how this form of math rose to the challenges of each age: how to determine the area of a circle with only sand and a stick; how to explain why Mars goes "backwards" sometimes; how to make electricity with magnets; how to ensure your rocket doesn't miss the moon; how to turn the tide in the fight against AIDS. As Strogatz proves, calculus is truly the language of the universe. By unveiling the principles of that language, Infinite Powers makes us

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marvel at the world anew.

Verbal descriptions of life have been around for centuries, but the digital age has made access to those descriptions even more important. Dr. Joel Snyder, an audio description pioneer, has created a book and website offering the first overview of the field, including its history, application to a range of genres, description of training techniques, and list of resources. Audio description brings the visual world to life, making theater productions, television shows, films, visual art and events accessible to people who are blind or have low vision. Describers employ succinct, vivid, imaginative words to convey visual images those with sight take for granted. Although countries worldwide have taken up the cause, the United States has fallen short on research

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and institutions to study the field. Dr. Snyder ' s book helps fill in some of those gaps. “ For decades, Joel Snyder has combined his astonishing command of language with his keen attention to detail to create word pictures that stir the mind ' s eye, especially for patrons of the arts whose physical eyes cannot see. [...] His book has been long-awaited, and no doubt will become the standard for prospective audio describers around the world. ” -Kelsey Marshall, Founding Director of Accessibility, The John F. Kennedy Center for the Performing Arts, Washington, DC Dr. Joel Snyder is known internationally as one of the world ' s first “ audio describers, ” a pioneer in the field of audio description, making theater events, museum exhibitions, and media accessible to people who are blind or

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have low vision. Since 1981, he has introduced audio description techniques in 36 states and D.C. and in 35 countries. He holds a PhD in accessibility audio description from the Universitat Autònoma de Barcelona. Dr. Snyder ' s company, Audio Description Associates, LLC (www.audiodescribe.com) uses audio description to enhance a wide range of arts projects including video and film, museum exhibitions, and live events. As Director of Described Media for the National Captioning Institute, he supervised the production of descriptions for Sesame Street and dozens of feature films and nationally broadcast television; his descriptions can be heard at Smithsonian Institution exhibits, the Getty Museum, the Albright-Knox Gallery, and throughout the country at National

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Park Service visitor centers. As Director of the American Council of the Blind ' s Audio Description Project (www.acb.org/adp), Dr. Snyder voiced description for network coverage of President Obama ' s inauguration in 2009 and 2013, and recently produced the first-ever audio-described tour of The White House. The ADP website is the nation ' s principal provider of information and resources on audio description.

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

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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.

Provides easy to understand information and guidelines about the design and construction of binoscopes Focusing on both homemade and commercial products, this book

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provides the reader with simple and straightforward information about the modelling and building of binoscopes. Binoscopes can be thought of as binoculars enlarged to the size of telescopes: essentially, a combination of the two. Constructing a binoscope is easier than most people think, but it still demands attention to detail and proper background knowledge. The author goes on to provide additional information about how to understand the products currently on the market, should the reader choose to purchase a binoscope instead of building one. Lastly, the book also compares binoscopes with telescopes in great detail, outlining the differences the reader can expect to see in the night sky from using both. The celestial views obtained with a binoscope, compared to a single telescope of the

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same aperture, are a very different experience and well worth the effort. Bringing Schools into the 21st Century Using Technology in the Classroom Sensor Technologies The Networked Nonprofit How Calculus Reveals the Secrets of the Universe

Axiomatic Ideas with References to the Measurable Reality Sensemaking

In this lively and approachable volume based on his popular blog series, Martin Weller demonstrates a rich history of innovation and effective implementation of ed tech across higher education. From Bulletin Board Systems to blockchain, Weller follows the trajectory of education by

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focusing each chapter on a technology, theory, or concept that has influenced each year since 1994. Calling for both caution and enthusiasm, Weller advocates for a critical and research-based approach to new technologies, particularly in light of disinformation, the impact of social media on politics, and data surveillance trends. A concise and necessary retrospective, this book will be valuable to educators, ed tech practitioners, and higher education administrators, as well as students. In this insightful book, you'll learn from the best data

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practitioners in the field just how wide-ranging -- and beautiful -- working with data can be. Join 39 contributors as they explain how they developed simple and elegant solutions on projects ranging from the Mars lander to a Radiohead video. With Beautiful Data, you will:

- Explore the opportunities and challenges involved in working with the vast number of datasets made available by the Web*
- Learn how to visualize trends in urban crime, using maps and data mashups*
- Discover the challenges of designing a data processing system that works within the*

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*constraints of space travel
Learn how crowdsourcing and
transparency have combined
to advance the state of drug
research Understand how new
data can automatically trigger
alerts when it matches or
overlaps pre-existing data
Learn about the massive
infrastructure required to
create, capture, and process
DNA data That's only small
sample of what you'll find in
Beautiful Data. For anyone who
handles data, this is a truly
fascinating book. Contributors
include: Nathan Yau Jonathan
Follett and Matt Holm J.M.
Hughes Raghu Ramakrishnan,
Brian Cooper, and Utkarsh*

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*Srivastava Jeff Hammerbacher
Jason Dykes and Jo Wood Jeff
Jonas and Lisa Sokol Jud
Valeski Alon Halevy and Jayant
Madhavan Aaron Koblin with
Valdean Klump Michal Migurski
Jeff Heer Coco Krumme Peter
Norvig Matt Wood and Ben
Blackburne Jean-Claude
Bradley, Rajarshi Guha, Andrew
Lang, Pierre Lindenbaum,
Cameron Neylon, Antony
Williams, and Egon Willighagen
Lukas Biewald and Brendan
O'Connor Hadley Wickham,
Deborah Swayne, and David
Poole Andrew Gelman,
Jonathan P. Kastellec, and Yair
Ghitza Toby Segaran
The Latest Advances in*

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Universal Design Thoroughly updated and packed with examples of global standards and design solutions, Universal Design Handbook, Second Edition, covers the full scope of universal design, discussing how to develop media, products, buildings, and infrastructure for the widest range of human needs, preferences, and functioning. This pioneering work brings together a rich variety of expertise from around the world to discuss the extraordinary growth and changes in the universal design movement. The book provides an overview of

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universal design premises and perspectives, and performance-based design criteria and guidelines. Public and private spaces, products, and technologies are covered, and current and emerging research and teaching are explored. This unique resource includes analyses of historical and contemporary universal design issues from seven different countries, as well as a look at future trends. Students, advocates, policy makers, and design practitioners will get a theoretical grounding in and practical reference on the physical and social roles of design from this definitive

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volume. UNIVERSAL DESIGN HANDBOOK, SECOND EDITION, COVERS: United Nations Convention on the Rights of Persons with Disabilities U.S. accessibility codes and standards, including the Americans with Disabilities Act (ADA) Life safety standards and guidelines Universal design implementations in Norway, Japan, France, Germany, Brazil, Italy and the Old City of Jerusalem Planning ADA implementation in public educational institutions Urban scale and mass transportation universal design Designing inclusive experiences, including outdoor play settings

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*Office and workspace design
Universal design in home
building and remodeling
Products and technologies,
including autos, web access,
media, and digital content
Universal design research
initiatives, education, and
performance assessments
This volume offers a
comprehensive, empirical and
methodological view over new
scenarios recently emerged in
language teaching and
learning, such as blended
learning, e-learning,
ubiquitous, social, autonomous
or lifelong learning, and also
over some new (ICT-based)
approaches that can support*

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them (CALL, MALL, CLIL,
LMOOCs).

*Handbook of Satellite
Applications*

*The Cambridge Handbook of
Copyright in Street Art and
Graffiti*

*Maximizing Student
Engagement, Motivation, and
Learning*

*New perspectives on teaching
and working with languages in
the digital era*

*Essential Education for a
Changing World*

Nelson Science 10

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

This book offers systematic

instruction and evidence-based guidance to academic authors. It demystifies scholarly writing and helps build both confidence and skill in aspiring and experienced authors. The first part of the book focuses on the author's role, writing's risks and rewards, practical strategies for improving writing, and ethical issues. Part Two focuses on the most common writing tasks: conference proposals, practical articles, research articles, and books. Each chapter is replete with specific examples, templates to generate a first draft, and checklists or rubrics for self-evaluation. The final section of the book counsels graduate students and professors on selecting the most promising projects; generating multiple

related, yet distinctive, publications from the same body of work; and using writing as a tool for professional development. Written by a team that represents outstanding teaching, award-winning writing, and extensive editorial experience, the book leads teacher/scholar/authors to replace the old “publish or perish” dictum with a different, growth-seeking orientation: publish and flourish.

NOTE: NO FURTHER DISCOUNT FOR THIS PRODUCT- OVERSTOCK SALE -- Significantly reduced list price

Diagnoses the ills of the intelligence community. Describes the potential that sensemaking offers as a means precisely for helping policymakers to improve how they think about policy. Other related items: Critical Thinking and

Intelligence Analysis is available here: <https://bookstore.gpo.gov/products/sku/008-020-01589-0> United States Congressional Serial Set, Serial No. 14876, Senate Report No. 301, U.S. Intelligence Community's Prewar Intelligence Assessments on Iraq, Report of Select Committee on Intelligence is available here: <https://bookstore.gpo.gov/products/sku/552-108-00074-4> Crafting an Intelligence Community: Papers of the First Four DCIs (Book and DVD) is available here: <https://bookstore.gpo.gov/products/sku/041-015-00298-8> Interrogation: World War II, Vietnam, and Iraq is available here: <https://bookstore.gpo.gov/products/sku/008-000-01017-0> Who Watches the Watchmen?: The Conflict between National Security and Freedom of the Press is available

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here: <https://bookstore.gpo.gov/products/sku/008-020-01606-3>"

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

Many reports over the last few years have analysed the potential use of games, videogames, 3D environments and virtual reality for educational purposes. Numerous emerging technological devices have also appeared that will play important roles in the development of teaching and learning processes. In the context of these developments, learning rather than teaching becomes the main axis in the organisation of the educational process. This process has now gone beyond the analogue world and face-toface education to enter the digital world, where new learning environments are being produced with ever greater doses of realism. Teaching and Learning in Digital Worlds examines the

teaching and learning process in 3D virtual environments from both the theoretical and practical points of view.

Beautiful Data

Writing for Publication

Media Rich Instruction

Designing the Internet of Things

Changing Shapes with Matrices

25 Years of Ed Tech

A Comprehensive Training Manual

and Guide to the History and

Applications of Audio Description

Annotation 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

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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. The automotive industry appears close to substantial change engendered by “self-driving” technologies. This technology offers

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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.

The ultimate comprehensive social media reference book for any business looking to transform its marketing and operational strategies. Realizing that social media is dramatically impacting businesses, customers, and everyone connected to them, the authors of *The Social Media Bible* have consulted with leading social media experts from companies and consulting firms, as well as New York Times bestselling

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authors nationwide, to assemble a content-rich social media bible that will help businesses increase revenues, improve profitability, and ensure relevance and competitiveness. The book outlines just what social media is, and how to harness its power to achieve a measurable competitive advantage in rapidly changing markets. It allows readers to build a functional knowledge base, and tap into the collaborative power of such social media applications as Facebook, Linked In, Twitter, MySpace, Flickr, and YouTube. The book is part reference, part how-to manual, and part business strategy. For corporate enterprises, small businesses, and nonprofits alike, the strategies in The Social Media Bible are practical, powerful, and effective ways to

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connect with customers, prospects, employees, stakeholders, and collaborators. Packed with contributions from top names in the field covering virtually every major topic in social media, this is the perfect social media resource for businesses big and small. Lon Safko (Gilbert, AZ) is an innovator and professional speaker with over 20 years of experience in entrepreneurship, marketing, sales, strategic partnering, speaking, training, writing, and e-commerce. He is the founder of eight successful companies, including Paper Models, Inc. David K. Brake (Mesa, AZ) is the CEO and founder of Content Connections, a company that uses social networking strategies to help clients build economically viable relationships around their content.

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This undergraduate textbook aids readers in studying music and color, which involve nearly the entire gamut of the fundamental laws of classical as well as atomic physics. The objective bases for these two subjects are, respectively, sound and light. Their corresponding underlying physical principles overlap greatly: Both music and color are manifestations of wave phenomena. As a result, commonalities exist as to the production, transmission, and detection of sound and light. Whereas traditional introductory physics textbooks are styled so that the basic principles are introduced first and are then applied, this book is based on a motivational approach: It introduces a subject with a set of related phenomena, challenging readers by calling for a physical

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basis for what is observed. A novel topic in the first edition and this second edition is a non-mathematical study of electric and magnetic fields and how they provide the basis for the propagation of electromagnetic waves, of light in particular. The book provides details for the calculation of color coordinates and luminosity from the spectral intensity of a beam of light as well as the relationship between these coordinates and the color coordinates of a color monitor. The second edition contains corrections to the first edition, the addition of more than ten new topics, new color figures, as well as more than forty new sample problems and end-of-chapter problems. The most notable additional topics are: the identification of two distinct spectral

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intensities and how they are related, beats in the sound from a Tibetan bell, AM and FM radio, the spectrogram, the short-time Fourier transform and its relation to the perception of a changing pitch, a detailed analysis of the transmittance of polarized light by a Polaroid sheet, brightness and luminosity, and the mysterious behavior of the photon. The Physics of Music and Color is written at a level suitable for college students without any scientific background, requiring only simple algebra and a passing familiarity with trigonometry. The numerous problems at the end of each chapter help the reader to fully grasp the subject.

Start Where They Are
Principles of Health Interoperability
Distance Education for Teacher

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Training

The Stories Behind Elegant Data
Solutions

Newtonian Tasks Inspired by Physics
Education Research

On the Origin of Natural Constants
World History

**Sensor Technologies:
Healthcare, Wellness and
Environmental Applications
explores the key aspects of
sensor technologies,
covering wired, wireless, and
discrete sensors for the
specific application domains
of healthcare, wellness and
environmental sensing. It
discusses the social,
regulatory, and design
considerations specific to**

these domains. The book provides an application-based approach using real-world examples to illustrate the application of sensor technologies in a practical and experiential manner. The book guides the reader from the formulation of the research question, through the design and validation process, to the deployment and management phase of sensor applications. The processes and examples used in the book are primarily based on research carried out by Intel or joint academic research

programs. "Sensor Technologies: Healthcare, Wellness and Environmental Applications provides an extensive overview of sensing technologies and their applications in healthcare, wellness, and environmental monitoring. From sensor hardware to system applications and case studies, this book gives readers an in-depth understanding of the technologies and how they can be applied. I would highly recommend it to students or researchers who are interested in wireless

sensing technologies and the associated applications.” Dr. Benny Lo Lecturer, The Hamlyn Centre, Imperial College of London “This timely addition to the literature on sensors covers the broad complexity of sensing, sensor types, and the vast range of existing and emerging applications in a very clearly written and accessible manner. It is particularly good at capturing the exciting possibilities that will occur as sensor networks merge with cloud-based ‘big data’ analytics to provide a host of

new applications that will impact directly on the individual in ways we cannot fully predict at present. It really brings this home through the use of carefully chosen case studies that bring the overwhelming concept of 'big data' down to the personal level of individual life and health.”
Dermot Diamond Director, National Centre for Sensor Research, Principal Investigator, CLARITY Centre for Sensor Web Technologies, Dublin City University "Sensor Technologies: Healthcare,

Wellness and Environmental Applications takes the reader on an end-to-end journey of sensor technologies, covering the fundamentals from an engineering perspective, introducing how the data gleaned can be both processed and visualized, in addition to offering exemplar case studies in a number of application domains. It is a must-read for those studying any undergraduate course that involves sensor technologies. It also provides a thorough foundation for those

involved in the research and development of applied sensor systems. I highly recommend it to any engineer who wishes to broaden their knowledge in this area!" Chris Nugent Professor of Biomedical Engineering, University of Ulster

Take your idea from concept to production with this unique guide Whether it's called physical computing, ubiquitous computing, or the Internet of Things, it's a hot topic in technology: how to channel your inner Steve Jobs and successfully

combine hardware, embedded software, web services, electronics, and cool design to create cutting-edge devices that are fun, interactive, and practical. If you'd like to create the next must-have product, this unique book is the perfect place to start. Both a creative and practical primer, it explores the platforms you can use to develop hardware or software, discusses design concepts that will make your products eye-catching and appealing, and shows you ways to scale up from a

single prototype to mass production. Helps software engineers, web designers, product designers, and electronics engineers start designing products using the Internet-of-Things approach Explains how to combine sensors, servos, robotics, Arduino chips, and more with various networks or the Internet, to create interactive, cutting-edge devices Provides an overview of the necessary steps to take your idea from concept through production If you'd like to design for the future, Designing the Internet of

Things is a great place to start.

Shift happens: Emerging technologies and globalization have resulted in political, social and cultural changes. These changes have a profound impact on all aspects of human life, including education. Yet while society has changed and continues to change, schools are slow to keep up. This book explores issues related to transforming and modernizing our educational systems, including the impact of societal shifts on

education, the efforts at various levels to bring schools into the 21st century, the identification of 21st century skills, the reformation of the curriculum, the creation of alternative models of schooling, the innovative use of technology in education, and many others. It addresses questions like the following: Should schools systems adapt to better meet the needs of tomorrow's world and how should this be accomplished? How can society better prepare students for a changing and

**challenging modern world?
What skills do students need
to lead successful lives and
become productive citizens
in the 21st century? How can
educators create learning
environments that are
relevant and meaningful for
digital natives? How can the
school curriculum be made
more rigorous to meet the
needs of the 21st century?
This book encourages
readers to transcend the
limits of their own
educational experience, to
think beyond familiar
notions of schooling,
instruction and curriculum,**

to consider how to best structure learning so that it will benefit future generations. It encourages a deeper analysis of the existing education system and offers practical insights into future directions focused on preparing students with 21st century skills.

In recent years, the number of conflicts related to the misuse of street art and graffiti has been on the rise around the world. Some cases involve claims of misappropriation related to corporate advertising

campaigns, while others entail the destruction or 'surgical' removal of street art from the walls on which they were created. In this work, Enrico Bonadio brings together a group of experts to provide the first comprehensive analysis of issues related to copyright in street art and graffiti.

Chapter authors shed light not only on the legal tools available in thirteen key jurisdictions for street and graffiti artists to object to unauthorized exploitations and unwanted treatments of their works, but also offer

policy and sociological insights designed to spur further debate on whether and to what extent the street art and graffiti subcultures can benefit from copyright and moral rights protection.

A five step approach to sustainable change

Building and Using Binoscopes

Sound and Light

NTIPERs

Connecting Curriculum To All Learners

Strategies and Issues in Higher Education

STEM Student Research Handbook

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Grades: 7 to 12 Each chapter includes theory, notes on classroom implications, and implementation suggestions. Bridges theory and practice Targets the needs of the adolescent learner Roots differentiated instructino within an effective classroom Unique Features Quizfor each chapter to guide teachers through a personalized exploration of content Implications for the Classroomexamine specific issues related to adolescence and how these affect teaching and learning Try Thisprovides specific strategies for differentiated instruction in the adolescent classroom Learn More Aboutprovides sources for additional reading on specific topics CD-ROMprovides easy-to-use modifiable blackline masters Look for the Administrator's Guide by Karen

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Hume: Supporting and Sustaining
Differentiated Instruction (with CD-
ROM) Also coming soon: Start Where
They Are Professional Development e-
Book (book & DVD)

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

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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

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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

The Networked Nonprofit Connecting with Social Media to Drive Change This groundbreaking book shows nonprofits a new way of operating in our increasingly connected world: a networked approach enabled by social technologies, where connections are leveraged to increase impact in effective ways that drive change for the betterment of our society and planet. "The Networked Nonprofit is a

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must-read for any nonprofit organization seeking innovative, creative techniques to improve their mission and better serve their communities." —Diana Aviv, president and CEO, Independent Sector "The Internet means never having to ask permission before trying something new. In *The Networked Nonprofit*, Kanter and Fine show nonprofits how to harness this flexibility to pursue their missions in partnership with two billion connected citizens." —Clay Shirky, author, *Here Comes Everybody: The Power of Organizing Without Organizations* "The Networked Nonprofit uniquely describes the historical context and the current challenges that compel nonprofit leaders to work in networked ways and offers easy steps to help users exploit the potential of social media and

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'working wikily.'" —Stephanie McAuliffe, director, organizational effectiveness, The David and Lucile Packard Foundation "A must-read for nonprofit leaders who want to change their organizations from the inside out by embracing the power of social networks." —Charlene Li, founding partner, Altimeter Group; author, Open Leadership; and coauthor, Groundswell "This is a perfect handbook for anyone who wants to leapfrog their current limitations of understanding and find real-world applications of technology to extend their mission." —Michele Nunn, CEO, Points of Light Institute, and cofounder, HandsOn Network "Kanter and Fine provide the 'Google Maps' for nonprofits to harness social media to kick butt and change the world." —Guy Kawasaki, cofounder,

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Alltop.com, and former chief evangelist, Apple Inc. "URGENT! Read this book. Take notes. Take action. If you work for a nonprofit, you don't have to do every single thing these seasoned authors have to share, but you certainly have to know what you're missing." —Seth Godin Register at

www.josseybass.com/email for more information on our publications, authors, and to receive special offers. Explorations of science, technology, and innovation in Africa not as the product of "technology transfer" from elsewhere but as the working of African knowledge. In the STI literature, Africa has often been regarded as a recipient of science, technology, and innovation rather than a maker of them. In this book, scholars from a range of disciplines show that

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STI in Africa is not merely the product of “technology transfer” from elsewhere but the working of African knowledge. Their contributions focus on African ways of looking, meaning-making, and creating. The chapter authors see Africans as intellectual agents whose perspectives constitute authoritative knowledge and whose strategic deployment of both endogenous and inbound things represents an African-centered notion of STI. “Things do not (always) mean the same from everywhere,” observes Clapperton Chakanetsa Mavhunga, the volume's editor. Western, colonialist definitions of STI are not universalizable. The contributors discuss topics that include the trivialization of indigenous knowledge under colonialism; the creative labor of chimurenga, the transformation of

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everyday surroundings into military infrastructure; the role of enslaved Africans in America as innovators and synthesizers; the African ethos of “fixing”; the constitutive appropriation that makes mobile technologies African; and an African innovation strategy that builds on domestic capacities. The contributions describe an Africa that is creative, technological, and scientific, showing that African STI is the latest iteration of a long process of accumulative, multicultural knowledge production. Contributors Geri Augusto, Shadreck Chirikure, Chux Daniels, Ron Eglash, Ellen Foster, Garrick E. Louis, D. A. Masolo, Clapperton Chakanetsa Mavhunga, Neda Nazemi, Toluwalogo Odumosu, Katrien Pype, Scott Remer

Universal Design Handbook, 2E
Contemporary Technologies in

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Education

Advances in Concentrating Solar
Thermal Research and Technology
Curriculum 21

Exploring Learning Ecologies
Healthcare, Wellness and
Environmental Applications

The Social Media Bible

E-learning has brought an enormous change to instruction, in terms of both rules and tools. Contemporary education requires diverse and creative uses of media technology to keep students engaged and to keep up with rapid developments in the ways they learn and teachers teach. Media Rich Instruction addresses these requirements with up-to-date learning theory and practices that incorporate innovative platforms for information delivery into

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traditional areas such as learning skills and learner characteristics. Experts in media rich classroom experiences and online instruction delve into the latest findings on student cognitive processes and motivation to learn while offering multimedia classroom strategies geared to specific curriculum areas. Advances such as personal learning environments, gamification, and the Massive Open Online Course are analyzed in the context of their potential for collaborative and transformative learning. And each chapter features key questions and application activities to make coverage especially practical across grade levels and learner populations. Among the topics included: Building successful

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learning experiences online.

Language and literacy, reading and writing. Mathematics teaching and learning with and through education technology. Learning science through experiment and practice. Social studies teaching for learner engagement. The arts and Technology. Connecting school to community. At a time when many are pondering the future of academic standards and student capacity to learn, Media Rich Instruction is a unique source of concrete knowledge and useful ideas for current and future researchers and practitioners in media rich instructional strategies and practices.

A supplementary workbook containing conceptual exercises in eleven different formats

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developing students' reasoning about physics and leading them to more effective quantitative problem solving.

DVD contains video examples of technology-rich lessons.

Foundations of Learning and Instructional Design Technology Cultures, States, and Societies To 1500

Infinite Powers

A Guide for Policymakers

Principles of Solar Gas Turbines for Electricity Generation