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Core Radiology Informational Texts in Pre-Kindergarten through Grade-Three Classrooms Organic Optoelectronic Materials Understanding and Creating Digital Texts The Dead Sea Scrolls Developing Novel Spinning Methods to Fabricate Continuous Multifunctional Fibres for Bioapplications Handbook of Functionalized Nanomaterials The World Book Encyclopedia Dielectric Polymer Materials for High-Density Energy Storage Planetary Astrobiology Hybrid Organic-Inorganic Interfaces Data Smart The SAGE Encyclopedia of Communication Research Methods Software Defined Mobile Networks (SDMN) Research Anthology on Machine Learning Techniques, Methods, and Applications Climate Change 2013: The Physical Science Basis Teaching and Learning from Within Biodegradable Polymers and Their Emerging Applications The Common Core Lesson Book, K-5 OECD Urban Policy Reviews: Kazakhstan Nonferrous Nanomaterials & Composites for Energy Storage and Conversion Marketing Assessment in Education ASHDOD Making the Common Core Standards Work Templated Fabrication of Graphene-Based Materials for Energy Applications Assessing Student Learning by Design Thermal Effects in Supercapacitors The Concise Encyclopedia of Communication Industrial Sensors and Controls in Communication Networks Foundry Management & Technology Bioinspired Materials for Medical Applications Handbook of Polyester Drug Delivery Systems The Social Studies Curriculum Outsourcing Economics The Go-To Guide for Engineering Curricula, Grades 9-12 Frontier and Innovation in Future Computing and Communications Colloidal Quantum Dot Light Emitting Diodes Reinventing Paulo Freire The Earth's Inner Core

The Concise Encyclopedia of Communication Apr 04 2021 This concise volume presents key concepts and entries from the twelve-volume ICA International Encyclopedia of Communication (2008), condensing leading scholarship into a practical and valuable single volume. Based on the definitive twelve-volume IEC, this new concise edition presents key concepts and the most relevant headwords of communication science in an A-Z format in an up-to-date manner Jointly published with the International Communication Association (ICA), the leading academic association of the discipline in the world Represents the best and most up-to-date international research in this dynamic and interdisciplinary field Contributions come from hundreds of authors who represent excellence in their respective fields An affordable volume available in print or online

**The Dead Sea Scrolls** Apr 28 2023 In 1947, a Bedouin shepherd literally stumbled upon a cave near the Dead Sea, a settlement now called Qumran, to the east of Jerusalem. This cave, along with the others located nearby, contained jars holding hundreds of scrolls and fragments of scrolls of texts both biblical and nonbiblical—in Hebrew, Aramaic, and Greek. The biblical scrolls would be the earliest evidence of the Hebrew Scriptures, or Old Testament, by hundreds of years; and the nonbiblical texts would shed dramatic light on one of the least-known periods of Jewish history—the Second Temple period. This find is, quite simply, the most important archaeological event in two thousand years of biblical studies. The scrolls provide information on nearly every aspect of biblical studies, including the Old Testament, text criticism, Second Temple Judaism, the New Testament, and Christian origins. It took more than fifty years for the scrolls to be completely and officially published, and there is no comparable brief, introductory resource. Core Biblical Studies fulfill the need for brief, substantive, yet highly accessible introductions to key subjects and themes in biblical studies. In the shifting tides of biblical interpretation, these books are designed to help students locate relevant meanings in conversation with the text. As a first step toward substantive and subsequent learning, the series draws on the best scholarship in order to provide foundational concepts and contextualized information on a broad scope of issues, methods, perspectives, and trends.

**Frontier and Innovation in Future Computing and Communications** Jul 28 2020 IT technology

engineering changes everyday life, especially in Computing and Communications. The goal of this book is to further explore the theoretical and practical issues of Future Computing and Communications. It also aims to foster new ideas and collaboration between researchers and practitioners.

*Bioinspired Materials for Medical Applications* Jan 02 2021 Bioinspired Materials for Medical Applications examines the inspiration of natural materials and their interpretation as modern biomaterials. With a strong focus on therapeutic and diagnostic applications, the book also examines the development and manipulation of bioinspired materials in regenerative medicine. The first set of chapters is heavily focused on bioinspired solutions for the delivery of drugs and therapeutics that also offer information on the fundamentals of these materials. Chapters in part two concentrate on bioinspired materials for diagnosis applications with a wide coverage of sensor and imaging systems With a broad coverage of the applications of bioinspired biomaterials, this book is a valuable resource for biomaterials researchers, clinicians, and scientists in academia and industry, and all those who wish to broaden their knowledge in the allied field. Explores how materials designed and produced with inspiration from nature can be used to enhance man-made biomaterials and medical devices Brings together the two fields of biomaterials and bioinspired materials Written by a world-class team of research scientists, engineers, and clinicians

*Outsourcing Economics* Sep 29 2020 Outsourcing Economics has a double meaning. First, it is a book about the economics of outsourcing. Second, it examines the way that economists have understood globalization as a pure market phenomenon, and as a result have 'outsourced' the explanation of world economic forces to other disciplines. Markets are embedded in a set of institutions - labor, government, corporate, civil society, and household - that mold the power asymmetries that influence the distribution of the gains from globalization. In this book, William Milberg and Deborah Winkler propose an institutional theory of trade and development starting with the growth of global value chains - international networks of production that have restructured the global economy and its governance over the past twenty-five years. They find that offshoring leads to greater economic insecurity in industrialized countries that lack institutions supporting workers. They also find that offshoring allows firms to reduce domestic investment and focus on finance and short-run stock movements.

*Foundry Management & Technology* Jan 31 2021

**Understanding and Creating Digital Texts** May 30 2023 This book provides activities and examples that use technological tools to help students learn how to create digital texts. This book also provides a basis for creating novel classroom activities that encourage students to define purpose and audience, make textual links, collaborate, gain new perspectives, and construct identities through writing. ies.

*Marketing* Nov 11 2021 **MARKETING: THE CORE, 2/e** by Kerin, Berkowitz, Hartley, and Rudelius continues the tradition of cutting-edge content and student-friendliness set by Marketing 8/e, but in a shorter, more accessible package. The Core distills Marketing's 22 chapters down to 18, leaving instructors just the content they need to cover the essentials of marketing in a single semester. Instructors using The Core also benefit from a full-sized supplements package that surpasses anything offered by the competition, while students will appreciate the easy-to-read paperback format that's equally kind to both the eyes and the pocketbook. The Core is more than just a "baby Kerin"; it combines great writing, currency, and supplements into the ideal package for budget-conscious students and time-conscious professors.

*Software Defined Mobile Networks (SDMN)* Jul 20 2022 This book describes the concept of a Software Defined Mobile Network (SDMN), which will impact the network architecture of current LTE (3GPP) networks. SDN will also open up new opportunities for traffic, resource and mobility management, as well as impose new challenges on network security. Therefore, the book addresses the main affected areas such as traffic, resource and mobility management, virtualized traffics transportation, network management, network security and techno economic concepts. Moreover, a complete introduction to SDN and SDMN concepts. Furthermore, the reader will be introduced to cutting-edge knowledge in areas such as network virtualization, as well as SDN concepts relevant to next generation mobile networks. Finally, by the end of the book the reader will be familiar with the feasibility and opportunities of SDMN concepts, and will be able to evaluate the limits of performance and scalability of these new technologies while applying them to mobile broadband and networks.

*The World Book Encyclopedia* Jan 26 2023 The 'World Book Encyclopedia' was first published in 1917 as

an 8-volume set. The encyclopedia has been expanded many times through the years and now has 22 volumes. This edition contains 2900 new or revised articles, 200 new or revised maps, 225 new photos, 212 new tables and charts, and 4890 pages are revised.

**Templated Fabrication of Graphene-Based Materials for Energy Applications** Jul 08 2021

Templated Fabrication of Graphene-Based Materials for Energy Applications An illuminating look at the latest research on graphene-based materials and their applications in energy In *Templated Fabrication of Graphene-Based Materials for Energy Applications*, a team of distinguished materials scientists delivers a unique and topical exploration of a versatile fabrication method used to create high-quality graphene and composites. The book offers a three-part approach to current topics in graphene fabrication. The first part introduces graphene-based materials and is followed by cutting-edge discussions of template methods used in the preparation of graphene-based materials. The editors conclude with the latest research in the area of graphene-based materials applications in various energy-related pursuits. Readers will find relevant content that refers to original research conducted by the editors themselves, as well as work from up-and-coming and established researchers that explores the most interesting horizons in the study of graphene-based materials. The book also provides: A thorough introduction to graphene, including its history and physical properties An in-depth analysis of current graphene synthesis strategies, including the classification of graphene preparations Expansive discussions of various kinds of template methods for graphene production, including the study of porous metals and the preparation of graphene in large quantities Comprehensive explorations of the applications of various graphene-based materials, including lithium-ion batteries, lithium-sulfur batteries, and supercapacitors Perfect for materials scientists, electrochemists, and solid-state physicists, *Templated Fabrication of Graphene-Based Materials for Energy Applications* will also earn a place in the libraries of physical chemists and professionals in the electrotechnical industry.

The Social Studies Curriculum Oct 30 2020 This fully revised and updated edition includes twelve new chapters on contemporary topics such as ecological democracy, Native studies, inquiry teaching, and Islamophobia. *The Social Studies Curriculum, Fourth Edition* updates the definitive overview of the issues teachers face when creating learning experiences for students in social studies. The book connects the diverse elements of the social studies curriculum—civic, global, social issues—offering a unique and critical perspective that separates it from other texts. Completely updated, this book includes twelve new chapters on the history of the social studies; democratic social studies; citizenship education; anarchist inspired transformative social studies; patriotism; ecological democracy; Native studies; inquiry teaching; Islamophobia; capitalism and class struggle; gender, sex, sexuality, and youth experiences in school; and critical media literacy. All the chapters from the previous edition have been thoroughly revised and updated, including those on teaching social studies in the age of curriculum standardization and high-stakes testing, critical multicultural social studies, prejudice and racism, assessment, and teaching democracy. Readers are encouraged to reconsider their assumptions and understanding about the origins, purposes, nature, and possibilities of the social studies curriculum. E. Wayne Ross is Professor of Curriculum Studies at the University of British Columbia, Canada. He has written and edited many books, including (with Abraham P. DeLeon) *Critical Theories, Radical Pedagogies, and Social Education: New Perspectives for Social Studies Education*.

**ASHDOD** Sep 09 2021

*The Earth's Inner Core* Apr 24 2020 The first comprehensive review of past and contemporary research on the Earth's inner core from a seismological perspective. Providing a detailed account of how seismology is used in inner core research, and suggesting avenues for further study, it is an essential resource for researchers and students studying seismology and deep Earth processes.

**The Common Core Lesson Book, K-5** Feb 12 2022 The quality of instruction is the most important factor in helping students meet the Common Core Standards. That's why Owocki's "Common Core Lesson Book" empowers teachers with a comprehensive framework for implementation that enhances existing curriculum and extends it to meet Common Core goals.

**Handbook of Polyester Drug Delivery Systems** Dec 01 2020 In the quest for innovative drug delivery systems attempting to meet the unmet needs in pharmaceutical space, research has taken a much more complicated path that poses a significant challenge for translation. Despite the progress made with novel

materials, polyesters still remain at the helm of drug delivery technologies. This book provides a single source of reference of polyester drug delivery systems that covers a broad spectrum of materials design, manufacturing techniques, and applications.

**Handbook of Functionalized Nanomaterials** Feb 24 2023 *Handbook of Functionalized Nanomaterials: Environmental Health and Safety* discusses the reactive properties of FNMs used in a range of applications, and their toxic impact on the environment. Nanomaterials have unique properties that can make them highly reactive. This reactivity can cause unwanted interactions with living cells, an increase in oxidative stress or damage to genetic material - resulting in damage to the environment and local wildlife. This negative impact is often further increased after surface functionalization of nanomaterials with other materials which offer unique properties of their own. To ensure environmental safety and ecological balance, rigorous toxicity testing of functionalized nanomaterials (FNMs) is necessary. This book discusses the toxicological uncertainties of FNMs and the limitations of FNMs in a range of applications. Later chapters propose methods to reliably assess the harm that functionalized nanomaterials can cause to the environment and wildlife, as well covering recent developments in the field of environmental health safety. The book concludes with a discussion on the future prospects of safe functionalized nanomaterials. Offers a novel, integrated approach, bridging the gap between FNMs and environmental health and safety Analyses the reactive properties of FNMs and their toxicological potential Provides an in-depth look at the impact of functionalized nanomaterials on the environment *Research Anthology on Machine Learning Techniques, Methods, and Applications* Jun 18 2022 Machine learning continues to have myriad applications across industries and fields. To ensure this technology is utilized appropriately and to its full potential, organizations must better understand exactly how and where it can be adapted. Further study on the applications of machine learning is required to discover its best practices, challenges, and strategies. The *Research Anthology on Machine Learning Techniques, Methods, and Applications* provides a thorough consideration of the innovative and emerging research within the area of machine learning. The book discusses how the technology has been used in the past as well as potential ways it can be used in the future to ensure industries continue to develop and grow. Covering a range of topics such as artificial intelligence, deep learning, cybersecurity, and robotics, this major reference work is ideal for computer scientists, managers, researchers, scholars, practitioners, academicians, instructors, and students.

**Colloidal Quantum Dot Light Emitting Diodes** Jun 26 2020 Explore all the core components for the commercialization of quantum dot light emitting diodes Quantum dot light emitting diodes (QDLEDs) are a technology with the potential to revolutionize solid-state lighting and displays. Due to the many applications of semiconductor nanocrystals, of which QDLEDs are an example, they also hold the potential to be adapted into other emerging semiconducting technologies. As a result, it is critical that the next generation of engineers and materials scientists understand these diodes and their latest developments. *Colloidal Quantum Dot Light Emitting Diodes: Materials and Devices* offers a comprehensive introduction to this subject and its most recent research advancements. Beginning with a summary of the theoretical foundations and the basic methods for chemically synthesizing colloidal semiconductor quantum dots, it identifies existing and future applications for these groundbreaking technologies. The result is tailored to produce a thorough understanding of this area of research. *Colloidal Quantum Dot Light Emitting Diodes* readers will also find: An author with decades of experience in the field of organic electronics Detailed discussion of topics including advanced display technologies, the patent portfolio and commercial considerations, and more Strategies and design techniques for improving device performance *Colloidal Quantum Dot Light Emitting Diodes* is ideal for material scientists, electronics engineers, inorganic and solid-state chemists, solid-state and semiconductor physicists, photochemists, and surface chemists, as well as the libraries that support these professionals.

**Developing Novel Spinning Methods to Fabricate Continuous Multifunctional Fibres for Bioapplications** Mar 28 2023 This book describes the development of three dimensional electroactive fibres using a novel coaxial wet-spinning approach from organic conductors in combination with non-conducting hydrogel polymers. This book also presents the characterization and evaluation of multiaxial biofibres in terms of mechanical, physical, electrochemical and biological properties, and explores their use in a diverse range of applications including implantable electrodes, drug delivery systems and energy-

storage systems. In the first chapter, the author highlights the significance of engineering three dimensional fibres, introduces the involved hydrogels and organic conductors with emphasis on their biomedical application, and collects some of the previously established methods for fabrication of biofibres. In the second chapter, particular attention is given to the overall experimental fabrication methods and characterization analyses conducted in the work. Chapters three to five present the main findings of this work, in which readers will discover how novel hybrid hydrogel fibres with an inner core of chitosan and alginate were prepared and characterized, how graphene was incorporated into coaxial wet-spun biofibres, and how one-dimensional triaxial fibres were developed using a novel coaxial wet-spinning fibre production method and applied as potential battery devices. In the final chapter of this work, the author summarizes the main achievements of the work and outlines some recommendations for future research.

*Climate Change 2013: The Physical Science Basis* May 18 2022 The Fifth Assessment Report of the IPCC is the standard scientific reference on climate change for students, researchers and policy makers.

**Planetary Astrobiology** Nov 23 2022 Are we alone in the universe? How did life arise on our planet? How do we search for life beyond Earth? These profound questions excite and intrigue broad cross sections of science and society. Answering these questions is the province of the emerging, strongly interdisciplinary field of astrobiology. Life is inextricably tied to the formation, chemistry, and evolution of its host world, and multidisciplinary studies of solar system worlds can provide key insights into processes that govern planetary habitability, informing the search for life in our solar system and beyond. Planetary Astrobiology brings together current knowledge across astronomy, biology, geology, physics, chemistry, and related fields, and considers the synergies between studies of solar systems and exoplanets to identify the path needed to advance the exploration of these profound questions. Planetary Astrobiology represents the combined efforts of more than seventy-five international experts consolidated into twenty chapters and provides an accessible, interdisciplinary gateway for new students and seasoned researchers who wish to learn more about this expanding field. Readers are brought to the frontiers of knowledge in astrobiology via results from the exploration of our own solar system and exoplanetary systems. The overarching goal of Planetary Astrobiology is to enhance and broaden the development of an interdisciplinary approach across the astrobiology, planetary science, and exoplanet communities, enabling a new era of comparative planetology that encompasses conditions and processes for the emergence, evolution, and detection of life.

**Nonferrous Nanomaterials & Composites for Energy Storage and Conversion** Dec 13 2021

*Teaching and Learning from Within* Apr 16 2022 This book brings together theory, research, and practice on core reflection, an approach that focuses on people's strengths as the springboard for personal growth and links theory and practice by highlighting the experience of the person.

**Core Radiology** Sep 02 2023 Embodying the principle of 'everything you need but still easy to read', this fully updated edition of Core Radiology is an indispensable aid for learning the fundamentals of radiology and preparing for the American Board of Radiology Core exam. Containing over 2,100 clinical radiological images with full explanatory captions and color-coded annotations, streamlined formatting ensures readers can follow discussion points effortlessly. Bullet pointed text concentrates on essential concepts, with text boxes, tables and over 400 color illustrations supporting readers' understanding of complex anatomic topics. Real-world examples are presented for the readers, encompassing the vast majority of entities likely encountered in board exams and clinical practice. Divided into two volumes, this edition is more manageable whilst remaining comprehensive in its coverage of topics, including expanded pediatric cardiac surgery descriptions, updated brain tumor classifications, and non-invasive vascular imaging. Highly accessible and informative, this is the go-to introductory textbook for radiology residents worldwide.

*Assessment in Education* Oct 11 2021 This book provides key insights into how educational leaders can successfully navigate the turbulence of political debate surrounding leading student assessment and professionalised practice. Given the highly politicised nature of assessment, it addresses leaders and aspiring leaders who are open to being challenged, willing to explore controversy, and capable of engaging in informed critical discourse. The book presents the macro concepts that these audiences must have to guide optimal assessment policy and practice. Collectively, the chapters highlight important

assessment purposes and models, including intended and unintended effects of assessment in a globalised context. The book provides opportunities to explore cultural similarities and particularities. It invites readers to challenge taken-for-granted assumptions about ourselves and colleagues in other settings. The chapters highlight the cultural clashes that may occur when cross-cultural borrowing of assessment strategies, policies, and tools takes place. However, authors also encourage sophisticated critical analyses of potential lessons that may be drawn from other contexts and systems. Readers will encounter challenges from authors to deconstruct their assessment values, beliefs, and preconceptions. Indeed, one purpose of the book is to destabilise certainties about assessment that prevail and to embrace the assessment possibilities that can emerge from cognitive dissonance.

**Organic Optoelectronic Materials** Jun 30 2023 This volume reviews the latest trends in organic optoelectronic materials. Each comprehensive chapter allows graduate students and newcomers to the field to grasp the basics, whilst also ensuring that they have the most up-to-date overview of the latest research. Topics include: organic conductors and semiconductors; conducting polymers and conjugated polymer semiconductors, as well as their applications in organic field-effect-transistors; organic light-emitting diodes; and organic photovoltaics and transparent conducting electrodes. The molecular structures, synthesis methods, physicochemical and optoelectronic properties of the organic optoelectronic materials are also introduced and described in detail. The authors also elucidate the structures and working mechanisms of organic optoelectronic devices and outline fundamental scientific problems and future research directions. This volume is invaluable to all those interested in organic optoelectronic materials.

**OECD Urban Policy Reviews: Kazakhstan** Jan 14 2022 This report provides a comprehensive assessment of Kazakhstan's urban policies in terms of economic, social and environmental impact.

**Reinventing Paulo Freire** May 25 2020 One of the most influential critical educators of the twentieth century, Paulo Freire challenged those educational inequalities and conditions of injustice faced by oppressed populations. In this new edition of *Reinventing Paulo Freire*, Antonia Darder re-examines his legacy through reflections on Freirean pedagogy and the narratives of teachers who reinvent his work. The fully revised first part provides important historical, political, and economic connections between major societal concerns and educational questions raised by Freire and their link to the contemporary moment, including questions tied to neoliberalism, coloniality, and educational inequalities. At the heart of the book is a critical understanding of how Freire's pedagogy of love can inform, in theory and practice, a humanizing approach to teaching and learning. Powerful teacher narratives offer examples of a living praxis, committed to democratic classroom life and the emancipation of subaltern communities. The narratives clearly illustrate how Freire's ideas can be put concretely into practice in schools and communities. These reflections on Freirean praxis are sure to spark conversation and inspiration in teacher education courses. Through a close theoretical engagement of Freire's ideas and key insights garnered from lived experiences, the book speaks to the ways Freire can still inspire contemporary educators to adopt the spirit of liberatory pedagogy. By so doing, *Reinventing Paulo Freire* is certain to advance his theories in new ways, both to those familiar with his work and to those studying Freire for the first time.

**The SAGE Encyclopedia of Communication Research Methods** Aug 21 2022 Communication research is evolving and changing in a world of online journals, open-access, and new ways of obtaining data and conducting experiments via the Internet. Although there are generic encyclopedias describing basic social science research methodologies in general, until now there has been no comprehensive A-to-Z reference work exploring methods specific to communication and media studies. Our entries, authored by key figures in the field, focus on special considerations when applied specifically to communication research, accompanied by engaging examples from the literature of communication, journalism, and media studies. Entries cover every step of the research process, from the creative development of research topics and questions to literature reviews, selection of best methods (whether quantitative, qualitative, or mixed) for analyzing research results and publishing research findings, whether in traditional media or via new media outlets. In addition to expected entries covering the basics of theories and methods traditionally used in communication research, other entries discuss important trends influencing the future of that research, including contemporary practical issues students will face in communication professions,

the influences of globalization on research, use of new recording technologies in fieldwork, and the challenges and opportunities related to studying online multi-media environments. Email, texting, cellphone video, and blogging are shown not only as topics of research but also as means of collecting and analyzing data. Still other entries delve into considerations of accountability, copyright, confidentiality, data ownership and security, privacy, and other aspects of conducting an ethical research program. Features: 652 signed entries are contained in an authoritative work spanning four volumes available in choice of electronic or print formats. Although organized A-to-Z, front matter includes a Reader's Guide grouping entries thematically to help students interested in a specific aspect of communication research to more easily locate directly related entries. Back matter includes a Chronology of the development of the field of communication research; a Resource Guide to classic books, journals, and associations; a Glossary introducing the terminology of the field; and a detailed Index. Entries conclude with References/Further Readings and Cross-References to related entries to guide students further in their research journeys. The Index, Reader's Guide themes, and Cross-References combine to provide robust search-and-browse in the e-version.

*Industrial Sensors and Controls in Communication Networks* Mar 04 2021 This informative text/reference presents a detailed review of the state of the art in industrial sensor and control networks. The book examines a broad range of applications, along with their design objectives and technical challenges. The coverage includes fieldbus technologies, wireless communication technologies, network architectures, and resource management and optimization for industrial networks. Discussions are also provided on industrial communication standards for both wired and wireless technologies, as well as for the Industrial Internet of Things (IIoT). Topics and features: describes the FlexRay, CAN, and Modbus fieldbus protocols for industrial control networks, as well as the MIL-STD-1553 standard; proposes a dual fieldbus approach, incorporating both CAN and ModBus fieldbus technologies, for a ship engine distributed control system; reviews a range of industrial wireless sensor network (IWSN) applications, from environmental sensing and condition monitoring, to process automation; examines the wireless networking performance, design requirements, and technical limitations of IWSN applications; presents a survey of IWSN commercial solutions and service providers, and summarizes the emerging trends in this area; discusses the latest technologies and open challenges in realizing the vision of the IIoT, highlighting various applications of the IIoT in industrial domains; introduces a logistics paradigm for adopting IIoT technology on the Physical Internet. This unique work will be of great value to all researchers involved in industrial sensor and control networks, wireless networking, and the Internet of Things.

*Data Smart* Sep 21 2022 Data Science gets thrown around in the press like it's magic. Major retailers are predicting everything from when their customers are pregnant to when they want a new pair of Chuck Taylors. It's a brave new world where seemingly meaningless data can be transformed into valuable insight to drive smart business decisions. But how does one exactly do data science? Do you have to hire one of these priests of the dark arts, the "data scientist," to extract this gold from your data? Nope. Data science is little more than using straight-forward steps to process raw data into actionable insight. And in *Data Smart*, author and data scientist John Foreman will show you how that's done within the familiar environment of a spreadsheet. Why a spreadsheet? It's comfortable! You get to look at the data every step of the way, building confidence as you learn the tricks of the trade. Plus, spreadsheets are a vendor-neutral place to learn data science without the hype. But don't let the Excel sheets fool you. This is a book for those serious about learning the analytic techniques, the math and the magic, behind big data. Each chapter will cover a different technique in a spreadsheet so you can follow along: Mathematical optimization, including non-linear programming and genetic algorithms Clustering via k-means, spherical k-means, and graph modularity Data mining in graphs, such as outlier detection Supervised AI through logistic regression, ensemble models, and bag-of-words models Forecasting, seasonal adjustments, and prediction interval through monte carlo simulation Moving from spreadsheets into the R programming language You get your hands dirty as you work alongside John through each technique. But never fear, the topics are highly applicable and the author laces humor throughout. You'll even learn what a dead squirrel has to do with optimization modeling, which you no doubt are dying to know.

*Biodegradable Polymers and Their Emerging Applications* Mar 16 2022 Bio-degradable polymers are rapidly emerging as a sustainable alternative to traditional petroleum-based plastics and polymers.

However, the synthesis and processing of such polymers present unique challenges and opportunities. In this comprehensive volume, Dr. Saha and her team provide an in-depth exploration of the synthesis and processing of bio-degradable polymers and their emerging applications in various sectors from drug delivery to food packaging. Covering a wide range of topics, including synthesis, modification, processing techniques, and few of their advanced applications in emerging areas, this book provides a comprehensive overview of the field. The authors also delve into cutting-edge research on the synthesis, properties and applications of bio-degradable polymers in various fields, such as agricultural, food preservation, biomedical arena, energy storage and other advanced application areas. This volume is an essential resource for scientists, engineers, and policymakers interested in the future of sustainable materials. Whether you are a researcher looking to expand your knowledge of biodegradable polymer synthesis and processing or a policymaker interested in the potential of biodegradable polymers to reduce our reliance on fossil fuels, this book is an invaluable guide to the field.

**Informational Texts in Pre-Kindergarten through Grade-Three Classrooms** Aug 01 2023 The focus of this book is the inclusion of informational texts in primary-grade teaching and learning. Each chapter references particular Common Core State Standards that are connected to the chapter and includes techniques to aid students in obtaining mastery of the Standards.

**Dielectric Polymer Materials for High-Density Energy Storage** Dec 25 2022 Dielectric Polymer Materials for High-Density Energy Storage begins by introducing the fundamentals and basic theories on the dielectric behavior of material. It then discusses key issues on the design and preparation of dielectric polymer materials with strong energy storage properties, including their characterization, properties and manipulation. The latest methods, techniques and applications are explained in detail regarding this rapidly developing area. The book will support the work of academic researchers and graduate students, as well as engineers and materials scientists working in industrial research and development. In addition, it will be highly valuable to those directly involved in the fabrication of capacitors in industry, and to researchers across the areas of materials science, polymer science, materials chemistry, and nanomaterials. Focuses on how to design and prepare dielectric polymer materials with strong energy storage properties Includes new techniques for adjusting the properties of dielectric polymer materials Presents a thorough review of the state-of-the-art in the field of dielectric polymer materials, providing valuable insights into potential avenues of development

**Assessing Student Learning by Design** Jun 06 2021 How can we help teachers use classroom assessments to gather appropriate evidence for all valued learning goals, and to use those assessments not just to measure learning but to promote it? This book provides an answer in a practical, proven, and principled Assessment Planning Framework that moves away from solely multiple-choice tests toward a wide range of approaches to classroom assessment activities, including performance-based assessments. The Framework examines four different types of learning goals, considers various purposes and audiences for assessment information, reviews five categories of classroom assessment methods, and presents options for communicating actionable results. To the authors, the primary purpose of classroom assessment is to inform teaching and learning, rather than simply to assign grades. This concise resource will be a reliable go-to reference for teachers, school leaders, mentors, and coaches in guiding classroom assessment practices and understanding their underlying principles. Book Features: Builds on the classic book Understanding by Design, written by Grant Wiggins and Jay McTighe. Offers a practical, nontechnical presentation appropriate for teacher preparation and busy practitioners (K–16). Explores different purposes for, and methods of, classroom assessment and grading. Addresses assessment of academic standards as well as transdisciplinary outcomes, such as 21st-century skills. Describes the principles and practices underlying standards-based grading.

**Hybrid Organic-Inorganic Interfaces** Oct 23 2022 Hybrid organic-inorganic materials and the rational design of their interfaces open up the access to a wide spectrum of functionalities not achievable with traditional concepts of materials science. This innovative class of materials has a major impact in many application domains such as optics, electronics, mechanics, energy storage and conversion, protective coatings, catalysis, sensing and nanomedicine. The properties of these materials do not only depend on the chemical structure, and the mutual interaction between their nano-scale building blocks, but are also strongly influenced by the interfaces they share. This handbook focuses on the most recent investigations



concerning the design, control, and dynamics of hybrid organic-inorganic interfaces, covering: (i) characterization methods of interfaces, (ii) innovative computational approaches and simulation of interaction processes, (iii) in-situ studies of dynamic aspects controlling the formation of these interfaces, and (iv) the role of the interface for process optimization, devices, and applications in such areas as optics, electronics, energy and medicine.

[Making the Common Core Standards Work](#) Aug 09 2021 Essential reading for school leaders! Providing a blueprint for implementing and exceeding the new Common Core State Standards, this practical guide focuses on realistic strategies for lasting change within schools. The authors build an inspiring case for how individual schools can develop a world-class education system through targeted professional development. Topics include: Empowering teachers and staff as partners in implementing the new standards Adapting existing curriculum to meet grade-level goals for mathematics and language arts Designing assessments that measure mastery of the standards Ensuring that the standards benefit all students, including multicultural learners

*The Go-To Guide for Engineering Curricula, Grades 9-12* Aug 28 2020 How to engineer change in your high school science classroom With the Next Generation Science Standards, your students won't just be scientists—they'll be engineers. But you don't need to reinvent the wheel. Seamlessly weave engineering and technology concepts into your high school math and science lessons with this collection of time-tested engineering curricula for science classrooms. Features include: A handy table that leads you straight to the chapters you need In-depth commentaries and illustrative examples A vivid picture of each curriculum, its learning goals, and how it addresses the NGSS More information on the integration of engineering and technology into high school science education

*Thermal Effects in Supercapacitors* May 06 2021 This Brief reviews contemporary research conducted in university and industry laboratories on thermal management in electrochemical energy storage systems (capacitors and batteries) that have been widely used as power sources in many practical applications, such as automobiles, hybrid transport, renewable energy installations, power backup and electronic devices. Placing a particular emphasis on supercapacitors, the authors discuss how supercapacitors, or ultra capacitors, are complementing and replacing, batteries because of their faster power delivery, longer life cycle and higher coulombic efficiency, while providing higher energy density than conventional electrolytic capacitors. Recent advances in both macro- and micro capacitor technologies are covered. The work facilitates systematic understanding of thermal transport in such devices that can help develop better power management systems.

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