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Green in Software Engineering Engineering Pedagogy Towards Outcome-Based Education Innovations and New Technologies (v.2) Handbook of Fluidization and Fluid-Particle Systems Online Courses and ICT in Education: Emerging Practices and Applications Practical and Applied Hydrogeology Schienefahrzeugdynamik Value Engineering Synergies with Lean Six Sigma Nursing Informatics and the Foundation of Knowledge Rekayasa Fondasi Handbuch Oberflächennahe Geothermie Die Vierte Industrielle Revolution Geotechnik Climate Technology, Gender, and Justice Theoretische Bodenmechanik Moderne Physik Philosophy of Engineering and Artifact in the Digital Age Exile, Diaspora, and Return Design, Implementation, and Evaluation of Virtual Learning Environments Connecting ICTs to Development Microservices Making Curriculum Pop Code Wars Designing Transformative Multicultural Initiatives The Diversity Delusion Activated Carbon The Integration of Immigrants into American Society Handbook of Cultural Psychology, Second Edition China and Cybersecurity Astronomie für Dummies Auravana Project Plan Communication and Networking Intelligent Learning Systems and Advancements in Computer-Aided Instruction: Emerging Studies Deriving Goal-oriented Performance Models by Systematic Experimentation Oceans of Innovation Environment-Friendly Products—Adapt Green Now Digital Technology and the Practices of Humanities Research Big Data Analytics for Smart and Connected Cities Critical Information Infrastructure Protection and Resilience in the ICT Sector Handbook of Research on Green ICT: Technology, Business and Social Perspectives

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Online Courses and ICT in Education: Emerging Practices and Applications Jun 29 2022

"This book offers a critical review of current research in technology-supported education, focusing on the development and design of successful education programs, student success factors, and the creation and use of online courses"--Provided by publisher.

Making Curriculum Pop Jan 13 2021 From body art to baseball cards, comics to cathedrals, pie charts to power ballads . . . students need help navigating today's media-rich world. And educators need help teaching today's new media literacy. To be literate now means being able to read, write, listen, speak, view, and represent across all media—including both print and nonprint texts, such as film, TV, podcasts, websites, visual art, fashion, architecture, landscape, and music. This book offers secondary teachers in all content areas a flexible, interdisciplinary approach to integrate these literacies into their curriculum. Students form cooperative learning groups to evaluate media texts from various perspectives (artist, producer, sociologist, sound mixer, economist, poet, set designer, and more) and show their thinking using unique graphic organizers aligned to the Common Core State Standards

Auravana Project Plan Apr 03 2020 This publication is the Project Plan for a community-

type society. A societal-level project plan describes the organized thinking and execution of a socio-technical environment; the societal structuring of community. This project plan identifies humanity's project to create a global community-type society for the fulfillment of that which everyone has mutually in common. This is a planned project for a configuration of society that may be tested in its results at optimally meeting all human life requirements at the global scale. This is a planning and work proposal for an open-source, societal-level project. This document describes and explains a unified approach to actions and results that is likely, given what is known and accessible, to improve all of humanity. This is the plan for societal navigation that specifies an approach, direction, and execution to socio-technical life. The project plan has three core sections: (1) Approach to project execution, (2) Direction of project execution, and (3) Execution of project execution. The standard details the complete, plannable information set for the society's operation, including its approach to action, its direction of action, and its execution and adaptation of action. Herein, these concepts, their relationships and understandings, are defined and modeled. Discursive reasoning is provided for this specific configuration of a project plan, as opposed to the selection and encoding of other configurations. A project plan provides for the formalized project-based development operation of a society, organized in time and with available resources, coordinated to become a societal service system for human fulfillment and ecological well-being.

Handbook of Cultural Psychology, Second Edition Jul 07 2020 Now completely revised (over 90% new), this handbook offers the authoritative presentation of theories, methods, and applications in the dynamic field of cultural psychology. Leading scholars review state-of-the-art empirical research on how culture affects nearly every aspect of human functioning. The volume examines how topics fundamental to psychology--such as cognition, emotion, motivation, development, and mental health--are influenced by cultural meanings and practices. It also addresses the psychological and evolutionary underpinnings of cultural stability and change. The second edition reflects important advances in cultural neuroscience and an increasing emphasis on application, among many other changes. As a special bonus, purchasers of the second edition can download a supplemental e-book featuring several notable, highly cited chapters from the first edition. New to This Edition: *Most chapters are new, reflecting nearly a decade of theoretical and methodological developments. *Cutting-edge perspectives on culture and biology, including innovative neuroscientific and biopsychological research. *Section on economic behavior, with new topics including money, negotiation, consumer behavior, and innovation. *Section on the expansion of cultural approaches into religion, social class, subcultures, and race. *Reflects the growth of real-world applications in such areas as cultural learning and adjustment, health and well-being, and terrorism.

Critical Information Infrastructure Protection and Resilience in the ICT Sector Jul 27 2019 With the progression of technological breakthroughs creating dependencies on telecommunications, the internet, and social networks connecting our society, CIIP (Critical Information Infrastructure Protection) has gained significant focus in order to avoid cyber attacks, cyber hazards, and a general breakdown of services. Critical Information Infrastructure Protection and Resilience in the ICT Sector brings together a variety of empirical research on the resilience in the ICT sector and critical information infrastructure protection in the context of uncertainty and lack of data about potential threats and hazards. This book presents a variety of perspectives on computer science, economy, risk analysis, and social sciences; beneficial to academia, governments, and other organisations engaged or interested in CIIP, Resilience and Emergency Preparedness in the ICT sector.

Digital Technology and the Practices of Humanities Research Sep 28 2019 How does technology impact research practices in the humanities? How does digitisation shape scholarly identity? How do we negotiate trust in the digital realm? What is scholarship, what forms can it take, and how does it acquire authority? This diverse set of essays demonstrate the importance of asking such questions, bringing together established

and emerging scholars from a variety of disciplines, at a time when data is increasingly being incorporated as an input and output in humanities sources and publications. Major themes addressed include the changing nature of scholarly publishing in a digital age, the different kinds of 'gate-keepers' for scholarship, and the difficulties of effectively assessing the impact of digital resources. The essays bring theoretical and practical perspectives into conversation, offering readers not only comprehensive examinations of past and present discourse on digital scholarship, but tightly-focused case studies. This timely volume illuminates the different forces underlying the shifting practices in humanities research today, with especial focus on how humanists take ownership of, and are empowered by, technology in unexpected ways. *Digital Technology and the Practices of Humanities Research* is essential reading for scholars, students, and general readers interested in the changing culture of research practices in the humanities, and in the future of the digital humanities on the whole.

Climate Technology, Gender, and Justice Sep 20 2021 This book is the first to undertake a gendered analysis of geoengineering and alternative energy sources. Are either of these technologies sufficiently attendant to gender issues? Do they incorporate feminist values as articulated by the renowned social philosopher Helen Longino, such as empirical adequacy, novelty, heterogeneity, complexity and applicability to human needs? The overarching argument in this book contends that, while mitigation strategies like solar and wind energy go much further to meet feminist objectives and virtues, geoengineering is not consistent with the values of justice as articulated in Longino's feminist approach to science. This book provides a novel, feminist argument in support of pursuing alternative energy in the place of geoengineering. It provides an invaluable contribution for academics and students working in the areas of gender, science and climate change as well as policy makers interested in innovative ways of taking up climate change mitigation and gender.

Innovations and New Technologies (v.2) Sep 01 2022 In recent years of the 21st Century the author of this book and other scientists as well, have instigated and described many new ideas, researches, theories, macro-projects, USA and other countries patented concepts, speculative macro-engineering ideas, projects and other general innovations in technology and environment change. In aerospace these include air catapult transportation, hypersonic ground electric AB engine, protection of the Earth from asteroids and delivery of asteroids to the Earth, re-entry space apparatus to Earth, airborne wind turbines, electronic wind generator and propulsion, long distance shells, new self-propelled penetration bomb, inexpensive mini thermonuclear reactor, etc. In technology these include new ideas and innovation in space sciences and Earth technologies: Underground explosion nuclear energy; Electron hydro electric generator; Electron super speed hydro propulsion; Electric theory of tornado; Protection from tornado; and so on.

Rekayasa Fondasi Jan 25 2022 Materi pokok rekayasa fondasi mencakup pengetahuan dasar berupa teori-teori dan pengetahuan terapan, yaitu penyelesaian kasus-kasus perencanaan yang ada di lapangan. Pengetahuan dasar diperlukan karena merupakan hal dasar yang memengaruhi optimalisasi desain fondasi bangunan di lapangan. Pengetahuan terapan mencakup penjelasan metode perhitungan rumus-rumus yang relevan bagi perencanaan fondasi, meliputi desain dimensi fondasi, kedalaman, serta penurunan dan stabilitas terhadap gaya-gaya internal dan eksternal. Buku *Rekayasa Fondasi* untuk Program Vokasi disusun karena adanya keterbatasan referensi tentang materi fondasi dangkal dan fondasi dalam, yang mudah dipelajari mahasiswa. Untuk itu, ketika ada kesempatan untuk menyusun materi rekayasa fondasi, penulis beserta teman-teman pengajar yang sebidang, berusaha menyajikan materi buku ajar yang sesuai dengan kebutuhan silabus program vokasi. Mencakup materi fondasi dangkal (shallow foundation) dan fondasi dalam (depth foundation).

Handbook of Fluidization and Fluid-Particle Systems Jul 31 2022 This reference details particle characterization, dynamics, manufacturing, handling, and processing for the employment of multiphase reactors, as well as procedures in reactor scale-up and

design for applications in the chemical, mineral, petroleum, power, cement and pharmaceuticals industries. The authors discuss flow through fixed beds, elutriation and entrainment, gas distributor and plenum design in fluidized beds, effect of internal tubes and baffles, general approaches to reactor design, applications for gasifiers and combustors, dilute phase pneumatic conveying, and applications for chemical production and processing. This is a valuable guide for chemists and engineers to use in their day-to-day work.

Value Engineering Synergies with Lean Six Sigma Mar 27 2022 Lean Six Sigma (LSS), Design for Six Sigma (DFSS), and Value Engineering (VE) have a proven track record of success for solving problems and improving efficiency. Depending on the situation, integrating these approaches can provide results that exceed the benefits of each individual approach. ***Value Engineering Synergies with Lean Six Sigma: Combining***

Designing Transformative Multicultural Initiatives Nov 10 2020 Higher education is facing a perfect storm as it contends with changing demographics, shrinking budgets and concerns about access and cost, while underrepresented groups - both in faculty ranks and students - are voicing dissatisfaction with campus climate and demanding changes to structural inequities. This book argues that, to address the inexorable changes ahead, colleges and universities need both to centralize the value of diversity and inclusion and employ a set of strategies that are enacted at all levels of their institutions. It argues that individual and institutional change efforts can only be achieved by implementing "diversity as a value" - that is embracing social change efforts as central and additive rather than episodic and required - and provides the research and theoretical frameworks to support this approach, as well as tools and examples of practice that accomplish change. The contributors to this book identify the elements that drive successful multicultural initiatives and that strengthen the effectiveness of campus efforts to dismantle systemic oppression, as well as the individual and organization skills needed to manage difference effectively. Among these is developing the capacity of administrators, faculty and student affairs professionals as conscious scholar practitioners to sensitively manage conflicts on campus, deconstruct challenging structures and reconstruct the environment intentionally to include in respectful ways experiences of historically marginalized groups and non-dominant ways of being in the world. The books' focus on developing capacities for multicultural competence aligns with higher education's increasing emphasis on civic engagement and institutional goals promote skills to interact in meaningful and responsible ways around difference, whether of people, ideas or identities. ***Designing Transformative Multicultural Initiatives*** provides guiding principles and practical strategies to successfully transform higher education to become fully inclusive and advance the success of all constituents and stakeholders.

Intelligent Learning Systems and Advancements in Computer-Aided Instruction:

Emerging Studies Jan 31 2020 "This book reviews computational models and technologies for distance education, focusing on systems, infrastructures, and frameworks for delivering quality education"--Provided by publisher.

Deriving Goal-oriented Performance Models by Systematic Experimentation Jan 01 2020

Exile, Diaspora, and Return May 17 2021 Machine generated contents note: -- Preface -- Chapter 1 - Exile and Post-Exile in Analytical Perspective -- Chapter 2 - Escape, Deportation and Exile: The Contours of Institutionalized Exclusion -- Chapter 3 - Exile and Diaspora Politics: Mobilizing to Undo Exclusion -- Chapter 4 - Diaspora and Home Country Initiatives, Transnational Networks and State Policies -- Chapter 5 - Surviving Authoritarianism, Contributing to the Agenda of Democratization -- Chapter 6 - Undoing Exile? Remembering, Imagining, Envisioning -- Chapter 7 - The Transformational Role of Culture and Education: Impacting the Future -- Chapter 8 - Shifting Frontiers of Citizenship -- Conclusions -- About the Authors -- Index

Code Wars Dec 12 2020 'With a combination of acute observation, close analysis and clear-headed honesty, Rebecca Giblin leads the reader to share her conclusion that there is no legislative, judicial, commercial or technical panacea for copyright

infringement which P2P software facilitates, but that even now it is not too late to improve the manner in which the rights-owning and distribution sectors address the challenges that P2P poses.' Jeremy Phillips, Olswang, and Intellectual Property Institute, UK Code Wars recounts the legal and technological history of the first decade of the P2P file sharing era, focusing on the innovative and anarchic ways in which P2P technologies evolved in response to decisions reached by courts with regard to their predecessors. With reference to US, UK, Canadian and Australian secondary liability regimes, this insightful book develops a compelling new theory to explain why a decade of ostensibly successful litigation failed to reduce the number, variety or availability of P2P file sharing applications and highlights ways the law might need to change if it is to have any meaningful effect in future. A genuine interdisciplinary study, spanning both the law and information technology fields, this book will appeal to intellectual property and technology academics and researchers internationally. Historians and sociologists studying this fascinating period, as well as undergraduate and graduate students who are working on research projects in related fields, will also find this book a stimulating read.

Environment-Friendly Products—Adapt Green Now Oct 29 2019 Excessive pollution has provoked the nature, and the nature starts behaving in unnatural ways (in form of global warming versus global cooling, heavy rains versus draught, and other natural calamities like frequent earthquakes and tsunami, cyclones, epidemics, and so forth). Economic growth via production and consumption threatens peaceful life of human beings on the earth. Environment-friendly eco-green marketing is an attempt to protect consumer welfare and environment (the nature) through production, consumption, and disposal of eco-friendly products. Basically, green marketing is concerned with three aspects: 1. promotion of production and consumption of pure/quality products, 2. fair and just dealing with customers and society, and 3. protection of ecological environment. Thus, green marketing is a marketing philosophy that promotes production and selling of pure (eco-friendly) products with protection of ecological balance. Green marketing involves multiple activities. Green marketing encourages production of pure products by pure technology, conservation of energy, preservation of environment, minimum use of natural resources, and more use of natural foods instead of processed foods. Efforts of people, social organizations, firms, and governments in this regard can be said as green marketing efforts. Green marketing raises the voice against production, consumption, and/or disposal of such products that harm consumers, the society, and the environment anyway. It is necessary that businessmen and users should refrain from harmful products.

Activated Carbon Sep 08 2020 "Many books have been written about granular activated carbon. Some focus on the theory of performance and removal mechanisms while others focus on design features. This book focuses on solutions. It describes the challenges facing water providers to provide safe water that is acceptable to their customers, utility experiences using activated carbon, activated carbon applications, and design and procurement approaches. The appendices include detailed case studies and a life-cycle assessment demonstrating favorable sustainability considerations for activated carbon when compared to other treatment technologies. Never before has all of this information been together in one location. The what, why, and how of activated carbon are connected in this book and demonstrate why this treatment technology has maintained its status as an integral treatment technology in the quest for pure water over millennia"--

Theoretische Bodenmechanik Aug 20 2021 2 nung der durch Änderungen in der Belastung und in den Entwässerungsbedingungen verursachten Wirkungen meist nur sehr gering sind. Diese Feststellung gilt im besonderen Maße für alle jene Aufgaben, die sich mit der Wirkung des strömenden Wasser befassen, weil hier untergeordnete Abweichungen in der Schichtung, die durch Probebohrungen nicht aufgeschlossen werden, von großem Einfluß sein können. Aus diesem Grunde unterscheidet sich die Anwendung der theoretischen Bodenmechanik auf den Erd- und Grundbau ganz

wesentlich von der Anwendung der technischen Mechanik auf den Stahl-, Holz- und Massivbau. Die elastischen Größen der Baustoffe Stahl oder Stahlbeton sind nur wenig veränderlich, und die Gesetze der angewandten Mechanik können für die praktische Anwendung ohne Einschränkung übertragen werden. Demgegenüber stellen die theoretischen Untersuchungen in der Bodenmechanik nur Arbeitshypothesen dar, weil unsere Kenntnisse über die mittleren physikalischen Eigenschaften des Untergrundes und über den Verlauf der einzelnen Schichtgrenzen stets unvollkommen und sogar oft äußerst unzulänglich sind. Vom praktischen Standpunkt aus gesehen, sind die in der Bodenmechanik entwickelten Arbeitshypothesen jedoch ebenso anwendbar wie die theoretische Festigkeitslehre auf andere Zweige des Bauingenieurwesens. Wenn der Ingenieur sich der in den grundlegenden Annahmen enthaltenen Unsicherheiten bewusst ist, dann ist er auch imstande, die Art und die Bedeutung der Unterschiede zu erkennen, die zwischen der Wirklichkeit und seiner Vorstellung über die Bodenverhältnisse bestehen.

Handbook of Research on Green ICT: Technology, Business and Social Perspectives Jun 25 2019 "This handbook coalesces worldwide investigations, thoughts, and practices in the area of Green ICT, covering the technical advances, methodological innovations, and social changes that result in enhancements and improvements in business strategies, social policies, and technical implementations"--Provided by publisher.

Practical and Applied Hydrogeology May 29 2022 Applications in Hydrogeology for Geoscientists presents the most recent scientific developments in the field that are accessible yet rigorous enough for industry professionals and academic researchers alike. A multi-contributed reference that features the knowledge and experience of the field's experts, the book's chapters span the full scope of hydrogeology, introducing new approaches and progress in conceptualization, simulation of groundwater flow and transport, and progressive hydro-geophysical methods. Each chapter includes examples of recent developments in hydrogeology, groundwater, and hydrology that are underscored with perspectives regarding the challenges that are facing industry professionals, researchers, and academia. Several sub-themes—including theoretical advances in conceptualization and modeling of hydro-geologic challenges—connect the chapters and weave the topics together holistically. Advances in research are aided by insights arising from observations from both field and laboratory work. Introduces new approaches and progress in hydrogeology, including conceptualization, simulated groundwater flow and transport, and cutting edge hydro-geophysical methods Features more than 100 figures, diagrams, and illustrations to highlight major themes and aid in the retention of key concepts Presents a holistic approach to advances in hydrogeology, from the most recent developments in reservoirs and hydraulics to analytic modeling of transient multi-layer flow and aquifer flow theory Integrates real life data, examples and processes, making the content practical and immediately implementable

Handbuch Oberflächennahe Geothermie Dec 24 2021 Das Handbuch vermittelt die Grundlagen wie das thermische Regime der Erde, die oberflächennahe Geologie, geologisch-geophysikalische Grundlagen, zugrunde liegende mathematische Methoden, Risikomanagement und Bohrtechniken. In den angewandten Kapiteln geht es konkret um Geothermieprojekte aus der Sicht eines Bauherren, u.a. um Heizlastberechnung und die hydraulische Abgleichung, daneben um das Projektmanagement, zu berücksichtigende Umweltaspekte, Finanzierung und Fördermöglichkeiten und die Dimensionierung von Anlagen. Auch Verfahrenstechnische Grundlagen, die Maschinentchnik, die Qualitätssicherung und Fragen der Kommunikation und Akzeptanz wie auch der Arbeitssicherheit und des Gesundheitsschutzes werden behandelt. Auch wenn der Schwerpunkt des Handbuches auf Deutschland, Österreich und der Schweiz liegt, so wird auch auf die Oberflächennahe Geothermiebranche weltweit eingegangen und Herausforderungen wie auch Chancen und Perspektiven aufgezeigt.

Moderne Physik Jul 19 2021 Endlich liegt die anschauliche und fundierte Einführung zur Modernen Physik von Paul A. Tipler und Ralph A. Llewellyn in der deutschen

Übersetzung vor. Eine umfassende Einführung in die Relativitätstheorie, die Quantenmechanik und die statistische Physik wird im ersten Teil des Buches gegeben. Die wichtigsten Arbeitsgebiete der modernen Physik - Festkörperphysik, Kern- und Teilchenphysik sowie die Kosmologie und Astrophysik - werden in der zweiten Hälfte des Buches behandelt. Zu weiteren zahlreichen Spezialgebieten gibt es Ergänzungen im Internet beim Verlag der amerikanischen Originalausgabe, die eine Vertiefung des Stoffes ermöglichen. Mit ca. 700 Übungsaufgaben eignet sich das Buch hervorragend zum Selbststudium sowie zur Begleitung einer entsprechenden Vorlesung. Die Übersetzung des Werkes übernahm Dr. Anna Schleitzer. Die Bearbeitung und Anpassung an Anforderungen deutscher Hochschulen wurde von Prof. Dr. G. Czycholl, Prof. Dr. W. Dreybrodt, Prof. Dr. C. Noack und Prof. Dr. U. Strohmusch durchgeführt. Dieses Team gewährleistet auch für die deutsche Fassung die wissenschaftliche Exaktheit und Stringenz des Originals.

Communication and Networking Mar 03 2020 The two volume set, CCIS 265 and 266, constitutes the refereed proceedings of the International Conference, FGCN 2011, held as Part of the Future Generation Information Technology Conference, FGIT 2011, Jeju Island, Korea, in December 2011. The papers presented were carefully reviewed and selected from numerous submissions and focus on the various aspects of future generation communication and networking.

Microservices Feb 11 2021 Eine Microservices-Architektur unterteilt Software-Systeme in eine Vielzahl kleiner Dienste, die unabhängig voneinander in Produktion gebracht werden können. Jedes Team arbeitet dabei an seinen Microservices und ist weitgehend entkoppelt von anderen Teams, das erlaubt eine einfache Skalierung agiler Prozesse. Die Aufteilung in Microservices schützt gegen den Verfall der Architektur, sodass die Systeme auch langfristig wartbar bleiben. Zudem können Legacy-Systeme durch Microservices ergänzt werden, ohne dabei den alten Code zu ändern. Und auch Continuous Delivery ist einfacher umsetzbar. Eberhard Wolff bietet Ihnen in diesem Buch eine umfangreiche Einführung in das Thema Microservices. Dabei geht es u.a. um: Vor- und Nachteile des Microservice-Ansatzes Microservices vs. SOA Die übergreifende Architektur von Microservice-Systemen Die Architektur einzelner Services Auswirkungen auf Projektorganisation, Betrieb, Testen und Deployment Nanoservices Das Buch erläutert technologieneutrale Konzepte und Architekturen, die mit verschiedenen Technologien umgesetzt werden können. Als Beispiel für einen konkreten Technologie-Stack wird Java mit Spring Boot, dem Netflix-Stack und Spring Cloud gezeigt. Anhand von vielen Beispielen und konkreten Szenarien lernen Sie, wie Microservices möglichst gewinnbringend genutzt werden können. Außerdem erhalten Sie Anregungen, das Gelernte durch eigene Experimente weiter zu vertiefen. In der zweiten Auflage wurde der Abschnitt zu Domain-Driven Design komplett überarbeitet. Erweitert wurde die beispielhafte Beschreibung von Microservices-Technologien: Neben dem Netflix-Stack werden nun auch Alternativen erwähnt. Außerdem wurden die Essays zur Evolution von Microservices und zu Microservices in der Amazon Cloud aktualisiert.

Big Data Analytics for Smart and Connected Cities Aug 27 2019 To continue providing people with safe, comfortable, and affordable places to live, cities must incorporate techniques and technologies to bring them into the future. The integration of big data and interconnected technology, along with the increasing population, will lead to the necessary creation of smart cities. Big Data Analytics for Smart and Connected Cities is a pivotal reference source that provides vital research on the application of the integration of interconnected technologies and big data analytics into the creation of smart cities. While highlighting topics such as energy conservation, public transit planning, and performance measurement, this publication explores technology integration in urban environments as well as the methods of planning cities to implement these new technologies. This book is ideally designed for engineers, professionals, researchers, and technology developers seeking current research on technology implementation in urban settings.

Philosophy of Engineering and Artifact in the Digital Age Jun 17 2021 Our world became

engineered, remaining, nevertheless, human. Through the philosophy of engineering, both Engineering and Philosophy are profoundly involved in the transcendental curve of the debates on the future of humankind in the Era of the Artifacts, brought by the emergent technologies of robotics, genetic engineering and nanotechnology. In the Era-Just-Before-Singularity, while engineering is improved by philosophy (as Peter Simons has demonstrated), the “respected system of perplexities we call philosophy” (Jorge Luis Borges) are encouraged by engineering. This book is an anthology of papers presented during PHEADE 2009 (Philosophy of Engineering and Artifact in the Digital Era—www.goldenideashome.com/pheade2009/)—an exploratory workshop organized in the mythical county of Bucovina (in the northern Romania). Registered by The Reasoner as one of the first East European meetings of Philosophers and Engineers of the third millennium, the event was organized by the Romanian Society for Philosophy, Engineering and Technoethics, in an original attempt to redefine the engineered future of the humankind.

Die Vierte Industrielle Revolution Nov 22 2021 Die größte Herausforderung unserer Zeit Ob selbstfahrende Autos, 3-D-Drucker oder Künstliche Intelligenz: Aktuelle technische Entwicklungen werden unsere Art zu leben und zu arbeiten grundlegend verändern. Die Vierte Industrielle Revolution hat bereits begonnen. Ihr Merkmal ist die ungeheuer schnelle und systematische Verschmelzung von Technologien, die die Grenzen zwischen der physischen, der digitalen und der biologischen Welt immer stärker durchbrechen. Wie kein anderer ist Klaus Schwab, der Vorsitzende des Weltwirtschaftsforums, in der Lage aufzuzeigen, welche politischen, wirtschaftlichen, sozialen und kulturellen Herausforderungen diese Revolution für uns alle mit sich bringt.

Connecting ICTs to Development Mar 15 2021 Over the past two decades, projects supported by the International Development Research Centre (IDRC) have critically examined the ways in which information and communications technologies (ICTs) can be used to improve learning, empower the disenfranchised, generate income opportunities for the poor, and facilitate access to healthcare in Africa, Asia, Latin America and the Caribbean. Considering that most development institutions and governments are currently attempting to integrate ICTs into their practices, it is an opportune time to reflect on the research findings that have emerged from IDRC’s work and research in this area. “Connecting ICTs to Development” discusses programmatic investments made by IDRC in a wide variety of areas related to ICTs, including infrastructure, access, regulations, health, governance, education, livelihoods, social inclusion, technical innovation, intellectual property rights and evaluation. Each chapter in this book analyzes the ways in which research findings from IDRC-supported projects have contributed to an evolution of thinking, and discusses successes and challenges in using ICTs as tools to address development issues. The volume also presents key lessons learned from ICT4D programming and recommendations for future work.

Green in Software Engineering Nov 03 2022 This is the first book that presents a comprehensive overview of sustainability aspects in software engineering. Its format follows the structure of the SWEBOK and covers the key areas involved in the incorporation of green aspects in software engineering, encompassing topics from requirement elicitation to quality assurance and maintenance, while also considering professional practices and economic aspects. The book consists of thirteen chapters, which are structured in five parts. First the “Introduction” gives an overview of the primary general concepts related to Green IT, discussing what Green in Software Engineering is and how it differs from Green by Software Engineering. Next “Environments, Processes and Construction” presents green software development environments, green software engineering processes and green software construction in general. The third part, “Economic and Other Qualities,” details models for measuring how well software supports green software engineering techniques and for performing trade-off analyses between alternative green practices from an economic perspective. “Software Development Process” then details techniques for incorporating green aspects at various stages of software development, including requirements engineering,

design, testing, and maintenance. In closing, "Practical Issues" addresses the repercussions of green software engineering on decision-making, stakeholder participation and innovation management. The audience for this book includes software engineering researchers in academia and industry seeking to understand the challenges and impact of green aspects in software engineering, as well as practitioners interested in learning about the state of the art in Green in Software Engineering.

Engineering Pedagogy Towards Outcome-Based Education Oct 02 2022 With the growing environment and consciousness of "outcome-based education," the importance of this subject has increased manifold. Unfortunately, there is little information on engineering pedagogy available outside of scattered journal articles, conference and symposium proceedings, workshop notes, and government and company reports. This book overcomes these difficulties by presenting, in a single volume, many of the recent advances in the field of engineering pedagogy and its recent developments. **Engineering Pedagogy Towards Outcome-Based Education** provides a systematic approach to explicit fundamentals as well as recent advances in the area. It incorporates various case studies for major topics as well as numerous academic examples. Each chapter contains many state-of-the-art techniques required for practical engineering applications. This book serves as a useful source of information for practicing academicians and specialists as well as academic institutions working on the subject.

Geotechnik Oct 22 2021 Sowohl das Fach Bodenmechanik als auch sein technisches Pendant, die Geotechnik sind Wissensgebiete, auf denen intensiv geforscht und neue Lösungen entwickelt werden. In dem Buch wird die inhärente Beziehung zwischen Bodenmechanik (Theorie) und Geotechnik (Praxis) dokumentiert und der rasanten Entwicklung dadurch Rechnung getragen, dass entsprechende Konzepte systematisch dargestellt werden. Die 3. Auflage wurde dem Stand der Technik angepasst, das gilt insbesondere für die Gebiete Bruchmechanik, Bodendynamik sowie Dammbau und Sickerströmungen.

Oceans of Innovation Nov 30 2019 This essay assumes the near certainty that the Pacific region will take primary leadership of the global economy in the near future and explores the implications for their education systems. It explores the historic insights that can be taken from the Atlantic's rise to global leadership and outlines the economic transformation over the last 50 years that has shifted leadership from the Atlantic to Pacific Asia. On this foundation, the authors lay out a new model for fostering innovation among individuals, teams, organisations and society as a whole. They recommend a combination of best practices in coherent reform of education systems together with the latest thinking on unlocking systemic innovation to produce the 'whole-system revolution' that will be required to inspire a generation and produce global leaders who are able to rise to the challenges of the 21st century. "This report highlights the challenges and opportunities that every education system around the world faces. May it facilitate an informed and productive dialogue on how we can better prepare our children for the future." Lee Hsien Loong, Prime Minister of Singapore "Excellent work on the future of education." David Miliband, Member of Parliament and Former Secretary of State for Foreign and Commonwealth Affairs "It is a terrific analysis and very important piece of work." Sir Ken Robinson, Author and speaker on education and creativity "I found it quite mesmerizing." Bill Drayton, Founder and Chair of Ashoka "The report is sweeping and challenging." Charlie Leadbeater, Author of 'Learning from the Extremes' "Interesting and timely report." Baroness Sally Morgan, Ofsted Chair "Certainly the most stimulating thing in education that I have read for a long time." Geoff Southworth, Professor of Education and Former Director of Research and Policy at the National College of School Leadership

The Diversity Delusion Oct 10 2020 By the New York Times bestselling author: a provocative account of the attack on the humanities, the rise of intolerance, and the erosion of serious learning America is in crisis, from the university to the workplace. Toxic ideas first spread by higher education have undermined humanistic values, fueled intolerance, and widened divisions in our larger culture. Chaucer, Shakespeare and

Milton? Oppressive. American history? Tyranny. Professors correcting grammar and spelling, or employers hiring by merit? Racist and sexist. Students emerge into the working world believing that human beings are defined by their skin color, gender, and sexual preference, and that oppression based on these characteristics is the American experience. Speech that challenges these campus orthodoxies is silenced with brute force. The Diversity Delusion argues that the root of this problem is the belief in America's endemic racism and sexism, a belief that has engendered a metastasizing diversity bureaucracy in society and academia. Diversity commissars denounce meritocratic standards as discriminatory, enforce hiring quotas, and teach students and adults alike to think of themselves as perpetual victims. From #MeToo mania that blurs flirtations with criminal acts, to implicit bias and diversity compliance training that sees racism in every interaction, Heather Mac Donald argues that we are creating a nation of narrowed minds, primed for grievance, and that we are putting our competitive edge at risk. But there is hope in the works of authors, composers, and artists who have long inspired the best in us. Compiling the author's decades of research and writing on the subject, *The Diversity Delusion* calls for a return to the classical liberal pursuits of open-minded inquiry and expression, by which everyone can discover a common humanity.

***Design, Implementation, and Evaluation of Virtual Learning Environments* Apr 15 2021 "This book highlights invaluable research covering the design, development, and evaluation of online learning environments, examining the role of technology enhanced learning in this emerging area"--Provided by publisher.--**

Schienefahrzeugdynamik Apr 27 2022 Mit der Renaissance des Schienenverkehrs hat das Spezialgebiet "Schienefahrzeugdynamik" an Bedeutung gewonnen. Auf entsprechendes Interesse wird das erste Buch im deutschsprachigen Raum stoßen, das hier seinen Schwerpunkt hat. Obwohl es auf der Vorlesung "Schienefahrzeugdynamik" an der TU Berlin basiert und Vorkenntnisse bezüglich Mechanik, Schwingungslehre und angewandter Mathematik voraussetzt, spricht es auch den Praktiker an. Das Buch behandelt die Vertikaldynamik bis hin zu Komfortbetrachtungen und die Lateraldynamik so weit, daß dem Leser ein Verständnis der Stabilität von Schienenfahrzeugen möglich ist. Den Vorgängen im Kontakt Rad/Schiene wird besondere Aufmerksamkeit gewidmet. Es enthält die jüngsten Erkenntnisse aus Forschung und Bahnpraxis. Die Autoren gehen detailliert auf die spezielle Terminologie der Schienefahrzeugdynamik und benachbarter Fachgebiete ein.

***The Integration of Immigrants into American Society* Aug 08 2020 The United States prides itself on being a nation of immigrants, and the country has a long history of successfully absorbing people from across the globe. The integration of immigrants and their children contributes to our economic vitality and our vibrant and ever changing culture. We have offered opportunities to immigrants and their children to better themselves and to be fully incorporated into our society and in exchange immigrants have become Americans - embracing an American identity and citizenship, protecting our country through service in our military, fostering technological innovation, harvesting its crops, and enriching everything from the nation's cuisine to its universities, music, and art. Today, the 41 million immigrants in the United States represent 13.1 percent of the U.S. population. The U.S.-born children of immigrants, the second generation, represent another 37.1 million people, or 12 percent of the population. Thus, together the first and second generations account for one out of four members of the U.S. population. Whether they are successfully integrating is therefore a pressing and important question. Are new immigrants and their children being well integrated into American society, within and across generations? Do current policies and practices facilitate their integration? How is American society being transformed by the millions of immigrants who have arrived in recent decades? To answer these questions, this new report from the National Academies of Sciences, Engineering, and Medicine summarizes what we know about how immigrants and their descendants are integrating into American society in a range of areas such as education, occupations, health, and language.**

Astronomie für Dummies May 05 2020 Finden auch Sie die Weiten des Kosmos faszinierend und fragen sich, wie Wissenschaftler so viel über Objekte in unerreichbarer Ferne wissen können? "Astronomie für Dummies" bringt Ihnen das Universum näher: Erkunden Sie unser Sonnensystem, ferne Galaxien und die Milchstraße. Lesen Sie wie in einem Krimi von schwarzen Löchern, dem Asteroidengürtel und der Entstehung des Universums. Außerdem gibt Stephen Maran viele Tipps zur richtigen Ausrüstung eines Astronomen. So können Sie schon bald selbst nach den Sternen greifen.

Nursing Informatics and the Foundation of Knowledge Feb 23 2022 Explains how nursing informatics relates to knowledge acquisition, knowledge processing, knowledge generation, and knowledge dissemination and feedback, all of which build the science of nursing.

China and Cybersecurity Jun 05 2020 China's emergence as a great power in the twenty-first century is strongly enabled by cyberspace. Leveraged information technology integrates Chinese firms into the global economy, modernizes infrastructure, and increases internet penetration which helps boost export-led growth. China's pursuit of "informatization" reconstructs industrial sectors and solidifies the transformation of the Chinese People's Liberation Army into a formidable regional power. Even as the government censors content online, China has one of the fastest growing internet populations and most of the technology is created and used by civilians. Western political discourse on cybersecurity is dominated by news of Chinese military development of cyberwarfare capabilities and cyber exploitation against foreign governments, corporations, and non-governmental organizations. Western accounts, however, tell only one side of the story. Chinese leaders are also concerned with cyber insecurity, and Chinese authors frequently note that China is also a victim of foreign cyber -- attacks -- predominantly from the United States. China and Cybersecurity: Espionage, Strategy, and Politics in the Digital Domain is a comprehensive analysis of China's cyberspace threats and policies. The contributors -- Chinese specialists in cyber dynamics, experts on China, and experts on the use of information technology between China and the West -- address cyberspace threats and policies, emphasizing the vantage points of China and the U.S. on cyber exploitation and the possibilities for more positive coordination with the West. The volume's multi-disciplinary, cross-cultural approach does not pretend to offer wholesale resolutions. Contributors take different stances on how problems may be analyzed and reduced, and aim to inform the international audience of how China's political, economic, and security systems shape cyber activities. The compilation provides empirical and evaluative depth on the deepening dependence on shared global information infrastructure and the growing willingness to exploit it for political or economic gain.