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Teaching Mathematics Online: Emergent Technologies and Methodologies Cambridge University Press

Standard ASCE/COPRI 61-14 uses displacement-based design methods to establish guidelines for the design of piers and wharves to withstand the effects of earthquakes.

Faculty Perceptions of Online Learning in Engineering Education Inner Engineering

The undergraduate years are a turning point in producing scientifically literate citizens and future scientists and engineers. Evidence from research about how students learn science and engineering shows that teaching strategies that motivate and engage students will improve their learning. So how do students best learn science and engineering? Are there ways of thinking that hinder or help their learning process? Which teaching strategies are most effective in developing their knowledge and skills? And how can practitioners apply these strategies to their own courses or suggest new approaches within their departments or institutions? "Reaching Students" strives to answer these questions. "Reaching Students" presents the best thinking to date on teaching and learning undergraduate science and engineering. Focusing on the disciplines of astronomy, biology, chemistry, engineering, geosciences, and physics, this book is an introduction to strategies to try in your classroom or institution. Concrete examples and case studies illustrate how experienced instructors and leaders have applied evidence-based approaches to address student needs, encouraged the use of effective techniques within a department or an institution, and addressed the challenges that arose along the way. The research-based strategies in "Reaching Students" can be adopted or adapted by instructors and leaders in all types of public or private higher education institutions. They are designed to work in introductory and upper-level courses, small and large classes, lectures and labs, and courses for majors and non-majors. And these approaches are feasible for practitioners of all experience levels who are open to incorporating ideas from research and reflecting on their teaching practices. This book is an essential resource for enriching instruction and better educating students.

Online Engineering and Society 4.0 Mohamed Bakr and Ahmed Elsharabasy

Standard ASCE/SEI 41-17 describes deficiency-based and systematic procedures that use performance-based principles to evaluate and retrofit existing buildings to withstand the effects of earthquakes.

Statics and Mechanics of Materials + Masteringengineering With Pearson Etext Access Card IGI Global

The book is written in a casual, conversational style. It is easily accessible to those who have no prior knowledge in 3D printing, yet the book's message is solidly practical, technically accurate, and consumer-relevant. The chapters include contemporary, real-life learning exercises and insights for how to buy, use and maintain 3D printers. It also covers free 3D modeling software, as well as 3D printing services for those who don't want to immediately invest in the purchase of a 3D printer. Particular focus is placed on free and paid resources, the various choices available in 3D printing, and tutorials and troubleshooting guides.

Using the Engineering Literature, Second Edition IGI Global Now in hardcover, this practical guide has become known worldwide as the "bible of the classroom maker movement." It provides K-12 educators with the how, why, and cool stuff that supports every classroom becoming a makerspace where kids and teachers learn together through direct experience with an assortment of high and low-tech materials.

Learning How to Learn Springer

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courses. The authors incorporate a model of learning that encourages self-guided inquiry and advances students beyond "plug-and-chug" and memorization of problem-solving methods. Checkpoints throughout each chapter provide worked out problem sets for students to solve using their own logic, before they are ready to tackle more difficult problems. An emphasis on reading and practice before class prepares students for in-class activities that reinforce the chapter's material. Students arrive prepared for class, allowing instructors to spend class time focusing on active learning through collaborative problem-solving, computer-based activities, and hands-on experiments that encourage guided inquiry. The 4th Edition provides new material and revisions based on input from instructors and students, as well as current software releases. Personalize learning with MyLab Engineering. MyLab(tm) Engineering is an online homework, tutorial, and assessment program that truly engages students as it offers customized, self-paced learning with instant feedback. MyLab Engineering gives students unlimited opportunity for practice with feedback and help when they need it most. Students will be prepared ahead of class, allowing you to spend class time focusing on active learning. 0134642252 / 9780134642253 Thinking Like an Engineer: An Active Learning Approach Plus MyLab Engineering -- Access Card Package Package consists of: 0134609875 / 9780134609874 MyLab Engineering with Pearson eText -- Access Card -- for Thinking Like an Engineer: An Active Learning Approach 0134639677 / 9780134639673 Thinking Like an Engineer: An Active Learning Approach Students can use the URL and phone number below to help answer their questions: <http://247pearsoned.custhelp.com/app/home> 800-677-6337 Using Technology Tools to Innovate Assessment, Reporting, and Teaching Practices in Engineering Education IGI Global International Conference on Engineering Education and Research Safety and Health for Engineers Springer Nature

A surprisingly simple way for students to master any subject--based on one of the world's most popular online courses and the bestselling book A Mind for Numbers A Mind for Numbers and its wildly popular online companion course "Learning How to Learn" have empowered more than two million learners of all ages from around the world to master subjects that they once struggled with. Fans often wish they'd discovered these learning strategies earlier and ask how they can help their kids master these skills as well. Now in this new book for kids and teens, the authors reveal how to make the most of time spent studying. We all have the tools to learn what might not seem to come naturally to us at first--the secret is to understand how the brain works so we can unlock its power. This book explains: Why sometimes letting your mind wander is an important part of the learning process How to avoid "rut think" in order to think outside the box Why having a poor memory can be a good thing The value of metaphors in developing understanding A simple, yet powerful, way to stop procrastinating Filled with illustrations, application questions, and exercises, this book makes learning easy and fun.

Overcoming Challenges in Software Engineering Education: Delivering Non-Technical Knowledge and Skills MDPI

Blended Learning combines the conventional face-to-face course delivery with an online component. The synergetic effect of the two modalities has proved to be of superior didactic value to each modality on its own. The highly improved interaction it offers to students, as well as direct accessibility to the lecturer, adds to the hitherto unparalleled learning outcomes. "Blended Learning in Engineering Education: Recent Developments in Curriculum, Assessment and Practice" highlights current trends in Engineering Education involving face-to-face and online curriculum delivery. This book will be especially useful to lecturers and postgraduate/undergraduate students as well as university administrators who would like to not only get an up-to-date overview of contemporary developments in this field, but also help enhance academic performance at all levels.

Invent To Learn CRC Press

NOTE: Before purchasing, check with your instructor to ensure you select the correct ISBN. Several versions of Pearson's MyLab & Mastering products exist for each title, and registrations are not transferable. To register for and use Pearson's MyLab & Mastering products, you may also need a Course ID, which your instructor will provide. Used books, rentals, and purchases made outside of Pearson If purchasing or renting from companies other than Pearson, the access codes for Pearson's MyLab & Mastering products may not be included, may be incorrect, or may be previously redeemed. Check with the seller before completing your purchase. "For courses in introductory combined Statics and Mechanics of Materials courses found in ME, CE, AE, and Engineering Mechanics departments." "This package includes MasteringEngineering" . " " "Statics and Mechanics of Materials" represents a combined abridged version of two of the author's books, namely "Engineering Mechanics: Statics," Fourteenth Edition and "Mechanics of Materials," Tenth Edition. It provides a clear and thorough presentation of both the theory and application

of the important fundamental topics of these subjects that are often used in many engineering disciplines. The development emphasizes the importance of satisfying equilibrium, compatibility of deformation, and material behavior requirements. The hallmark of the book remains the same as the author's unabridged versions with a strong emphasis on drawing a free-body diagram and on the importance of selecting an appropriate coordinate system and an associated sign convention whenever the equations of mechanics are applied. Throughout the book, many analysis and design applications are presented, which involve mechanical elements and structural members often encountered in engineering practice. Personalize learning with MasteringEngineering. MasteringEngineering is an online homework, tutorial, and assessment program designed to work with this text to engage students and improve results. Interactive, self-paced tutorials provide individualized coaching to help students stay on track. With a wide range of activities available, students can actively learn, understand, and retain even the most difficult concepts. The text and MasteringEngineering work together to guide students through engineering concepts with a multi-step approach to problems. 0134380703 / 9780134380704 Statics and Mechanics of Materials Plus MasteringEngineering with Pearson eText -- Access Card Package, 5/e Package consists of: 0134395107 / 9780134395104 "MasteringEngineering with Pearson eText" 0134382897 / 9780134382890 Statics and Mechanics of Materials, 5/e " Pearson

This essay sheds light on the top hacks for how to easily get through an engineering degree program and also elucidates why earning an engineering degree does not warrant the opportunity cost. Moreover, how to make substantial money without being an engineer is delineated in this essay. Earning an engineering degree in the digital era is easier than anytime in history. An exorbitant amount of hacks can be leveraged so that that you attain an engineering degree, such as a Mechanical Engineering Degree or Electrical Engineering Degree, from an accredited university in an expeditious manner with minimal work on your end, such as being able to earn course credits through passing DSST or CLEP exams. Prospective engineering students should consider taking DSST and CLEP exams. These examinations are multiple choice and can be completed in less than a couple hours per exam. The DSST and CLEP exams cover a host of subject areas and there are no ramifications against your GPA if you were to not pass any of these examinations. The DSST and CLEP exams costs roughly \$85 to take per exam (Sienkiewicz, 2019) which is less than 1/10th of the tuition cost of taking a college course. These examinations can allow you to attain 3 college credits per exam passed. You can also keep retaking these DSST and CLEP exams until you pass them. "There are 33 CLEP exams and 37 DSST exams available for students" (Sienkiewicz, 2019). By passing these exams, students can earn college credits without taking the various college course. These CLEP and DSST exams cover a broad range of subject areas, such as business, science, history, technology, economics, literature, mathematics, and humanities. This means that students who pass a copious amount of CLEP and DSST examinations can earn an exorbitant amount of college credits in a very short period of time and even finish a 4 year college program in half the time or less, 2-3 years instead of close to half a decade. "The idea behind CLEP and DSST exams is that students who already have extensive knowledge in a subject do not have to waste time re-learning material. So, choosing a subject or subjects that you are already familiar with will allow you to simply review the material and therefore prove to a college that you are already proficient in it and taking the class is not necessary" (Sienkiewicz, 2019). Additionally, prospective engineering students can make headway towards earning their undergraduate degree early by taking community college courses amid their teenage years and advanced placement (AP) courses as high school students. "AP tests are scored on a scale from 1-5. If your college offers AP credit, a score of a 4 or higher could allow you to earn 3 college credits per AP test passed without paying college tuition. Some students are able to skip the entire first year of college this way, thus cutting the entire cost of their college education by one quarter" (Franek, n.d.). In addition to take advance placement courses in high school, prospective college students also have the option to enroll in community college courses to earn additional college credits. High school students taking community college courses will not only be able to earn their degrees sooner than their peers, but will also have a much better sense of what a community college course entails since they will have amassed first-hand experience taking college courses before even fully enrolling in an undergraduate degree program. In order to finish an engineering degree program in an expeditious manner, engineering students can take online engineering courses, on-ground engineering courses at night, weekend engineering

courses, and can even complete engineering courses amid the summer semesters so that they can finish at least a year ahead of their peers by maximizing their course load. They can also seek permission from the dean of their university in order to enroll in more engineering courses than is typically permitted.

[New Trends in Networking, Computing, E-learning, Systems Sciences, and Engineering](#) Routledge

Inner Engineering Harmony

Inner Engineering Allied Publishers

"This book shares theoretical and applied pedagogical models and systems used in math e-learning including the use of computer supported collaborative learning, which is common to most e-learning practices"--Provided by publisher.

[Art of Doing Science and Engineering](#) CRC Press

Research indicates there is a gap in the implementation of online courses and programs in engineering education compared to other academic disciplines (Allen & Seaman, 2008, 2011, 2013). Using a mixed methods approach, this study collected both quantitative survey and qualitative interview data to identify which factors engineering faculty members perceived influence the implementation of online engineering courses. The survey items, based on the Technology Acceptance Model (TAM) and Unified Theory of Acceptance and Use of Technology Model (UTAUT) (Davis, 1989; Venkatesh, Morris, Davis, & Davis, 2003), included important factors specific to engineering education as indicated the literature. The interview instrument was developed based on the significant results of the survey portion of the study. The initial survey was sent to every engineering faculty member at all 31 institutions and 125 ABET accredited engineering programs in the state of Texas, with a final response population of n=266. The findings identified three major factors that influenced the implementation of online engineering courses: online teaching experience, course development issues, and implementation of technical aspects particular to engineering in an online format. The results are discussed within the context of the literature and recommendations to address the identified factors and barriers to implementation of online engineering are provided.

iCEER2014-McMaster Digest IGI Global

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MyLab Engineering gives students unlimited opportunity for practice with feedback and help when they need it most. Students will be prepared ahead of class, allowing you to spend class time focusing on active learning. 0134642252 / 9780134642253

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Thinking Like an Engineer Harmony

NEW YORK TIMES BESTSELLER • Thought leader, visionary, philanthropist, mystic, and yogi Sadhguru presents Western readers with a time-tested path to achieving absolute well-being: the classical science of yoga. "A loving invitation to live our best lives and a profound reassurance of why and how we can." —Sir Ken Robinson, author of *The Element*, *Finding Your Element*, and *Out of Our Minds: Learning to Be Creative* NAMED ONE OF THE TEN BEST BOOKS OF THE YEAR BY SPIRITUALITY & HEALTH The practice of hatha yoga, as we commonly know it, is but one of eight branches of the body

of knowledge that is yoga. In fact, yoga is a sophisticated system of self-empowerment that is capable of harnessing and activating inner energies in such a way that your body and mind function at their optimal capacity. It is a means to create inner situations exactly the way you want them, turning you into the architect of your own joy. A yogi lives life in this expansive state, and in this transformative book Sadhguru tells the story of his own awakening, from a boy with an unusual affinity for the natural world to a young daredevil who crossed the Indian continent on his motorcycle. He relates the moment of his enlightenment on a mountaintop in southern India, where time stood still and he emerged radically changed. Today, as the founder of Isha, an organization devoted to humanitarian causes, he lights the path for millions. The term guru, he notes, means "dispeller of darkness, someone who opens the door for you. . . . As a guru, I have no doctrine to teach, no philosophy to impart, no belief to propagate. And that is because the only solution for all the ills that plague humanity is self-transformation. Self-transformation means that nothing of the old remains. It is a dimensional shift in the way you perceive and experience life." The wisdom distilled in this accessible, profound, and engaging book offers readers time-tested tools that are fresh, alive, and radiantly new. Inner Engineering presents a revolutionary way of thinking about our agency and our humanity and the opportunity to achieve nothing less than a life of joy. Real-Time Bluetooth Networks Springer

This book provides a collection of the latest advances in engineering education in the Middle East and North Africa (MENA) region and sheds insights for future development. It is one of the first books to address the lack of comprehensive literature on undergraduate engineering curricula, and stimulates intellectual and critical discourse on the next wave of engineering innovation and education in the MENA region. The authors look at recent innovations through the lens of four topics: learning and teaching, curriculum development, assessment and accreditation, and challenges and sustainability. They also include analyses of pedagogical innovations, models for transforming engineering education, and methods for using technological innovations to enhance active learning. Engineering education topics on issues such as construction, health and safety, urban design, and environmental engineering in the context of the MENA region are covered in further detail. The book concludes with practical recommendations for implementations in engineering education. This is an ideal book for engineering education academics, engineering curriculum developers and accreditation specialists, and deans and leaders in engineering education.

Getting Started with 3D Printing Springer

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Thinking Like an Engineer Createspace Independent Publishing Platform

This book is one out of six IAEG XIII Congress and AEG 61st Annual Meeting proceeding volumes, and deals with topics related to the advances made in engineering geology with emphasis on education, soil and rock properties, and modeling. The theme of the IAEG/AEG Meeting, held in San Francisco from September 17-21, 2018, is Engineering Geology for a Sustainable World. The meeting proceedings analyze the dynamic role of engineering geology in our changing world. The meeting topics and subject areas of the six volumes are: Slope Stability: Case Histories, Landslide Mapping, Emerging Technologies; Geotechnical and Environmental Site Characterization; Mining, Aggregates, Karst; Dams, Tunnels, Groundwater Resources, Climate Change; Geologic Hazards: Earthquakes, Land

Subsidence, Coastal Hazards, and Emergency Response; and Advances in Engineering Geology: Education, Soil and Rock Properties, Modeling. Blended Learning in Engineering Education "O'Reilly Media, Inc." With the encroachment of the Internet into nearly all aspects of work and life, it seems as though information is everywhere. However, there is information and then there is correct, appropriate, and timely information. While we might love being able to turn to Wikipedia® for encyclopedia-like information or search Google® for the thousands of links on a topic, engineers need the best information, information that is evaluated, up-to-date, and complete. Accurate, vetted information is necessary when building new skyscrapers or developing new prosthetics for returning military veterans While the award-winning first edition of Using the Engineering Literature used a roadmap analogy, we now need a three-dimensional analysis reflecting the complex and dynamic nature of research in the information age. Using the Engineering Literature, Second Edition provides a guide to the wide range of resources available in all fields of engineering. This second edition has been thoroughly revised and features new sections on nanotechnology as well as green engineering. The information age has greatly impacted the way engineers find information. Engineers have an effect, directly and indirectly, on almost all aspects of our lives, and it is vital that they find the right information at the right time to create better products and processes. Comprehensive and up to date, with expert chapter authors, this book fills a gap in the literature, providing critical information in a user-friendly format.