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Massive Open Online Courses (MOOCs) For Everyone Jun 08 2020 The Book "Massive Open Online Courses (MOOCs) For Everyone", is the most comprehensive educational web resource book that explore the most famous innovative educational paradigm MOOC, online learning platforms and world's prestigious higher education institutions which are offering open online courses at their book will also cover the short history about the term, potential benefits of participation in an open online course, and how MOOCs have been transforming/revolutionizing/disseminating the education using advanced technologies and innovative pedagogical techniques. This book will be useful for learners who are looking for free, open, online courses to learn the new things or improve their level of knowledge on a particular subject. There are vast number of open online courses available in various topics through online learning platforms which are mentioned in participating in the free open online courses offered by various universities and institutions, learners can become expert in their favorite subject and improve the career in an efficient way written to benefit the students and lifelong learners to learn anything using free open online educational courses. Unleashing the most useful free open online course Resources: The book details of 90 online learning platforms and more than 275 higher education institutions and organizations which are participating the movement of MOOCs to offer free open online course written to represent in-depth education web resources with 9 Chapters and 155 pages.

Crisis in the Classroom Dec 22 2021

Bayesian Data Analysis, Third Edition Jun 15 2021 Now in its third edition, this classic book is widely considered the leading text on Bayesian methods, lauded for its accessible, practical approach to analyzing data and solving research problems. Bayesian Data Analysis, Third Edition continues to take an applied approach to analysis using up-to-date Bayesian methods. The authors—all leaders in the statistics community—introduce basic concepts from a data-analytic perspective before presenting advanced methods. Throughout the text, numerous worked examples drawn from real applications and research emphasize the use of Bayesian inference in practice. New to the Third Edition Four new chapters on nonparametric modeling Coverage of weakly informative priors and boundary-avoiding priors Updated discussion of cross-validation and predictive information criteria Improved convergence monitoring and effective sample size calculations for iterative simulation Presentations of Hamiltonian Monte Carlo, variational Bayes, and expectation propagation New and revised software code The book can be used in three different ways. For undergraduate students, it introduces Bayesian inference starting from first principles. For graduate students, the text presents effective current approaches to Bayesian modeling and computation in statistics and related fields. For researchers, it provides an assortment of Bayesian methods in applied statistics. Additional materials, including data sets used in the examples, solutions to selected exercises, and software instructions, are available on the book's

Improving How Universities Teach Science Oct 27 2019 Too many universities remain wedded to outmoded ways of teaching. Too few departments ask whether what happens in their lecture halls is effective at helping students to learn and how they can encourage their faculty to teach better. But real change is possible, and Carl Wieman shows us how it can be done—through detailed, tested

Lectures On Computation Sep 26 2019 Covering the theory of computation, information and communications, the physical aspects of computation, and the physical limits of computers, this notes taken by one of its editors, Tony Hey, on a lecture course on computation given b

Handbook of Research on Innovative Technology Integration in Higher Education Jul 29 2022 Our increasingly globalized world is driven by shared knowledge, and nowhere is that knowledge more important than in education. Now more than ever, there is a demand for technology that will assist in the spread of knowledge through customized, self-paced, and on-demand learning. The Handbook of Research on Innovative Technology Integration in Higher Education provides an international perspective on the need for information and communication technology in education and training the use of technology in both formal and informal learning, this book is an essential reference for academics, corporate leaders, government agencies, profit and non-profit organizations, and anyone interested in the use of technology to educate and share information.

Data-Driven Process Discovery and Analysis Jul 31 2021 This book constitutes the revised selected papers from the 5th IFIP WG 2.6 International Symposium on Data-Driven Process Discovery and Analysis, SIMPDA 2015, held in Vienna, Austria in December 2015. The 8 papers presented in this volume were carefully reviewed and selected from 22 submissions. They cover theoretical issues related to process representation, discovery and analysis, or provide practical and operational experiences in process discovery and analysis. They focus mainly on the adoption of process mining algorithms in conjunction and coordination with other techniques and methodologies.

14th Nordic-Baltic Conference on Biomedical Engineering and Medical Physics Aug 30 2022 14th Nordic – Baltic Conference on Biomedical Engineering and Medical Physics – NBC-2008 – brought together scientists not only from the Nordic – Baltic region, but from the entire world. This volume presents the Proceedings of this international conference, jointly organized by the Latvian Medical Physics Society, Riga Technical University and University of Latvia in close cooperation with International Federation of Medical and Biological Engineering (IFMBE) The topics covered by the Proceedings include: Biomaterials and Tissue Engineering; Biomechanics, Artificial Organs, Implants and Rehabilitation; Biomedical Instrumentation and Measurements, Biosensors and Transducers; Biomedical Optics and Lasers; Healthcare Management, Education and Training; Information Technology to Health; Medical Imaging, Telemedicine and E-Health; Medical Physics; Micro- and Nano Nanostructured Systems, Biophysics

Global Perspectives of Nanoscience and Engineering Education Aug 06 2020 This book presents the perspectives of nanotechnology educators from around the world. Experts present the pressing issues of teaching nanoscience and engineering to students in all levels of education, postsecondary and informal environments. The book was inspired by the 2014 NSF workshop for Nanoscience and Engineering Education. Since nanotechnology is a relatively new field, authors present recommendations for designing nanotechnology education programs. The chapters describe methods to teach specific probe microscopy, size and scale, and nanomaterial safety, in classrooms around the world. Other chapters describe the ways that organizations like NNIN and the NISE Network have influenced nanotechnology education. Information technology plays a growing role in all types of education and several chapters are devoted to describing ways how educators can use online curricula nanotechnology to students from preschool to graduate school.

Interactive Approaches to Video Lecture Assessment Nov 03 2022 A growing number of universities and other educational institutions record videos of regularly scheduled classes and lectures to provide students with additional resources for their study. However, the video alone is not necessarily the same than a carefully prepared educational video. The main issue is that they are typically not edited in an editorial sense. That is, the videos often contain longer periods of silence or inactivity, unnecessary repetitions, spontaneous interaction with students, or even corrections of prior flaws or mistakes. Furthermore, there is often no summary or table of contents of the video, unlike with educational videos that supplement a certain curriculum and are well scripted and edited. The plain recording of a lecture is a good start but far from a good e-learning resource. This thesis describes a system that can close the gap between a plain video recording and useful e-learning by providing automatic summaries and providing an interactive lecture browser that can visualize automatically extracted key phrases and their importance on an augmented time line. The lecture browser tasks: automatic speech recognition, automatic extraction and ranking of key phrases, extractive speech summarization, and the visualization of the phrases and their salience. These tasks contribution to the state of the art are described in detail and evaluated on a newly acquired corpus of academic spoken English, the LMELectures. A first user study shows that students using browser can solve a topic localization task about 29 % faster than students that are provided with the video only.

Fundamental Managerial Accounting Concepts 7e Jul 17 2021 Fundamental Managerial Accounting Concepts 7e

Calling Bullshit Jan 23 2022 Bullshit isn't what it used to be. Now, two science professors give us the tools to dismantle misinformation and think clearly in a world of fake news and bad data "A modern classic . . . a straight-talking survival guide to the mean streets of a dying democracy and a global pandemic."—Wired Misinformation, disinformation, and fake news abound and it's increasingly difficult to know what's true. Our media environment has become hyperpartisan. Science is conducted by press release. Startup culture elevates bullshit to high art. We are fairly well equipped to spot the old-school bullshit that is based in fancy rhetoric and weasel words, but most of us don't feel qualified to challenge the avalanche of new-school bullshit presented in the language of math, science, or statistics. In Calling Bullshit, Professors Carl Bergstrom and Jevin West give us a set of powerful tools to cut through the most intimidating data. You don't need a lot of technical expertise to call out problems with data. Are the numbers or results too good or too dramatic to be true? Is the claim comparing like with like? Is it confirming your personal bias? Drawing on a deep well of expertise in statistics and computational biology, Bergstrom and West exuberantly unpack examples of selection bias and muddled data visualization, distinguish between correlation and causation, and examine the susceptibility of science to bullshit. We have always needed people who call bullshit when necessary, whether within a circle of friends, a community of scholars, or the citizenry of a nation. Now that bullshit has evolved, we need to relearn the art of skepticism.

The Data Science Design Manual Sep 30 2022 This engaging and clearly written textbook/reference provides a must-have introduction to the rapidly emerging interdisciplinary field of data science. It focuses on the principles fundamental to becoming a good data scientist and the key skills needed to build systems for collecting, analyzing, and interpreting data. The Data Science Design Manual is a source of practical insights that highlights what really matters in analyzing data, and provides an intuitive understanding of how these core concepts can be used. The book does not emphasize any particular programming language or suite of data-analysis tools, focusing instead on high-level discussion of important design principles. This easy-to-read text ideally serves the needs of undergraduate and graduate students embarking on an "Introduction to Data Science" course. It reveals how this discipline sits at the intersection of statistics, computer science, and machine learning, with a distinct character of its own. Practitioners in these and related fields will find this book perfect for self-study as well. Additional learning tools: Contains "War Stories," offering perspectives on how data science applies in the real world Includes "Homework Problems," providing a wide range of exercises and projects for self-study Provides a complete set of lecture slides and online video lectures at data-manual.com Provides "Take-Home Lessons," emphasizing the big-picture concepts to learn from each chapter Recommends exciting "Kaggle Challenges" from the online platform Kaggle Highlights

Starts," revealing the subtle reasons why certain approaches fail Offers examples taken from the data science television show "The Quant Shop" (www.quant-shop.com)

Computer-Assisted Language Learning: Concepts, Methodologies, Tools, and Applications Jul 05 2020 In a diverse society, the ability to cross communication barriers is critical to the success of a individual personally, professionally, and academically. With the constant acceleration of course programs and technology, educators are continually being challenged to develop and methods for engaging English-speaking and non-English-speaking learners. Computer-Assisted Language Learning: Concepts, Methodologies, Tools, and Applications is a vital referen the relationship between language education and technology and the potential for curriculum enhancements through the use of mobile technologies, flipped instruction, and langua multi-volume book is geared toward educators, researchers, academics, linguists, and upper-level students seeking relevant research on the improvement of language education thr

Extending the Principles of Flipped Learning to Achieve Measurable Results: Emerging Research and Opportunities Dec 10 2020 The delivery of educational content can take a variety of forms, dependin the dynamics of a particular classroom. With flipped classroom environments, students can better engage and retain concepts and information. Extending the Principles of Flipped Measurable Results: Emerging Research and Opportunities shows through detailed case studies how to measure flipped learning results in order to implement Deming's P-D-S-A cy improvement in the flipped classroom. The book is built upon Dr. Michael G. Moore's theory of Transactional Distance. It highlights pedagogical coverage on topics such as individua learning, learning spaces, learning materials, and instructor and student preparation. This book is an ideal reference source for educators, professionals, graduate students, researc information on the latest instructional strategies.

The Last Lecture Sep 18 2021 "We cannot change the cards we are dealt, just how we play the hand."---Randy Pausch A lot of professors give talks titled "The Last Lecture." Profes their demise and to ruminate on what matters most to them. And while they speak, audiences can't help but mull the same question: What wisdom would we impart to the world chance? If we had to vanish tomorrow, what would we want as our legacy? When Randy Pausch, a computer science professor at Carnegie Mellon, was asked to give such a lectu as his last, since he had recently been diagnosed with terminal cancer. But the lecture he gave--"Really Achieving Your Childhood Dreams"--wasn't about dying. It was about the im obstacles, of enabling the dreams of others, of seizing every moment (because "time is all you have...and you may find one day that you have less than you think"). It was a summa come to believe. It was about living. In this book, Randy Pausch has combined the humor, inspiration and intelligence that made his lecture such a phenomenon and given it an inde will be shared for generations to come.

Interactive Lecturing Aug 21 2022 Tips and techniques to build interactive learning into lecture classes Have you ever looked out across your students only to find them staring at th smartphones rather than listening attentively to you? Have you ever wondered what you could do to encourage students to resist distractions and focus on the information you a wished you could help students become active learners as they listen to you lecture? Interactive Lecturing is designed to help faculty members more effectively lecture. This pract pertinent questions as, "How can lecture presentations be more engaging?" "How can we help students learn actively during lecture instead of just sitting and passively listening t authors Elizabeth F. Barkley and Claire H. Major provide practical tips on creating and delivering engaging lectures as well as concrete techniques to help teachers ensure students engaged participants in the learning process before, during, and after lecture presentations. Research shows that most college faculty still rely predominantly on traditional lecture technique. However, research also underscores the fact that more students fail lecture-based courses than classes with active learning components. Interactive Lecturing combine with active learning techniques specifically chosen to help students learn as they listen to a lecture. It is a proven teaching and learning strategy that can be readily incorporated In addition to providing a synthesis of relevant, contemporary research and theory on lecturing as it relates to teaching and learning, this book features 53 tips on how to deliver techniques you can assign students to do to support their learning during your lecture. The tips and techniques can be used across instructional methods and academic disciplines lectures and large lecture halls) as well as in online courses. This book is a focused, up-to-date resource that draws on collective wisdom from scholarship and practice. It will bec addition for everyone dedicated to effective teaching in higher education.

Multimedia Learning Apr 13 2021 Although verbal learning offers a powerful tool, Mayer explores ways of going beyond the purely verbal. Recent advances in graphics technology and have prompted new efforts to understand the potential of multimedia learning as a means of promoting human understanding. In this second edition, Mayer includes double the nu comparisons, 6 new principles - signalling, segmenting, pertaining, personalization, voice and image principles. The 12 principles of multimedia instructional design have been reorgan reducing extraneous processing, managing essential processing and fostering generative processing. Finally an indication of the maturity of the field is that the second edition high for each principle research-based constraints on when a principle is likely or not likely to apply. The boundary conditions are interpreted in terms of the cognitive theory of multime enrich theories of multimedia learning.

Super Courses Apr 01 2020 From the bestselling author of What the Best College Teachers Do, the story of a new breed of amazingly innovative courses that inspire students and i research have produced profound insights into how student learning and motivation can be unleashed—and it's not through technology or even the best of lectures. In Super Cour bestselling author Ken Bain tells the fascinating story of enterprising college, graduate school, and high school teachers who are using evidence-based approaches to spark deepe thinking, and creativity—whether teaching online, in class, or in the field. Visiting schools across the United States as well as in China and Singapore, Bain, working with his longtim Marshall Bain, uncovers super courses throughout the humanities and sciences. At the University of Virginia, undergrads contemplate the big questions that drove Tolstoy—by wor maximum-security correctional facility. Harvard physics students learn about the universe not through lectures but from their peers in a class where even reading is a social event school use dance to develop growth mindsets—and many of them go on to top colleges, including Juilliard. Bain defines these as super courses because they all use powerful resea a "natural critical learning environment" that fosters intrinsic motivation, self-directed learning, and self-reflective reasoning. Complete with sample syllabi, the book shows teacher own super courses. The story of a hugely important breakthrough in education, Super Courses reveals how these classes can help students reach their full potential, equip them t lives, and meet the world's complex challenges.

Learning How to Learn Mar 25 2022 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 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 m 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 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 b 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 • W 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 exer learning easy and fun.

Deep Learning for Coders with fastai and PyTorch Nov 27 2021 Deep learning is often viewed as the exclusive domain of math PhDs and big tech companies. But as this hands-on guide de programmers comfortable with Python can achieve impressive results in deep learning with little math background, small amounts of data, and minimal code. How? With fastai, the consistent interface to the most frequently used deep learning applications. Authors Jeremy Howard and Sylvain Gugger, the creators of fastai, show you how to train a model on fastai and PyTorch. You'll also dive progressively further into deep learning theory to gain a complete understanding of the algorithms behind the scenes. Train models in computer processing, tabular data, and collaborative filtering Learn the latest deep learning techniques that matter most in practice Improve accuracy, speed, and reliability by understanding work Discover how to turn your models into web applications Implement deep learning algorithms from scratch Consider the ethical implications of your work Gain insight from th cofounder, Soumith Chintala

The Evolution and Evaluation of Massive Open Online Courses Nov 28 2019 ?Winner of the Outstanding Book Award (Society for Professors of Education) This book offers a re-assessment o and occupational value of MOOCs based on developments since 2013. When MOOCs appeared--amidst great fanfare in 2012, leaders proclaimed an educational "revolution." By 20 failures, negative research findings, and sharp critiques ended the MOOC hype. This book examines both MOOCs and prior distance learning innovations, and offers a broad overvie economic and social effects. Chapters explore ties between MOOCs and emerging pedagogical models as well as exponentially rising tuition rates, student debt, and chronic underem graduates worldwide. It offers readers a comprehensive, up-to-the-moment guide to the MOOC phenomenon.

Massive Open Online Courses and Higher Education Sep 06 2020 Since the first MOOC was launched at the University of Manitoba in 2008, this new form of the massification of higher e rollercoaster ride for the university sector. The New York Times famously declared 2012 to be the year of the MOOC. However, by 2014, the number of academic leaders who beli unsustainable doubled to more than 50%. While the MOOC hype has somewhat subsided, the attitudes and anxieties of this peak time can still be seen influencing universities and the first volume that addresses Massive Open Online Courses from a post-MOOC perspective. We move beyond the initial hype and revolutionary promises of the peak-MOOC perio what endures in an area that is still rapidly growing, albeit without the headlines. This book explores the future of the MOOC in higher education by examining what went right, w next for the massification of higher education and online learning and teaching. The chapters in this collection address these questions from a wide variety of different background perspectives. They explore learner experiences, the move towards course for credit, innovative design, transformations and implications of the MOOC in turn. This book is valuable academics interested in education, eLearning, globalisation and information services.

ECEL 2018 17th European Conference on e-Learning Aug 25 2019 The European Conference on e-Learning was established 17 years ago. It has been held in France, Portugal, England, The N Greece and Denmark to mention only a few of the countries who have hosted it. ECEL is generally attended by participants from more than 40 countries and attracts an interestin scholars, practitioners and individuals who are engaged in various aspects of e-Learning. Among other journals, the Electronic Journal of e-Learning publishes a special edition of th this conference.

Learning and Teaching with Technology in the Knowledge Society Apr 29 2020 This book discusses learning and teaching with modern technology in the new knowledge society. It focuses spe literacy and technology in classroom environments. Based on a social-constructivist approach, this book covers a wide range of new technology use examples, such as participator systems and 3D computer graphics. A case study on a constructivist approach to teaching and learning, especially CSCL (computer supported collaborative learning), is discussed f for educators. It also includes specific in-class practices with detailed accounts of curricula featuring readily accessible yet new technology available for classroom use, such as G models.

Establishing a Leadership Mindset Nov 08 2020 Establishing a Leadership Mindset provides a more natural approach to obtaining buy-in for constant growth by harnessing the power o cognitive science and brain physiology. By fostering greater purpose and passion in the intentional efforts of educators, the goal is to achieve leadership throughout the team or o

ECEL2015-14th European Conference on e-Learning Feb 09 2021 These Proceedings represent the work of contributors to the 14th European Conference on e-Learning, ECEL 2015, hoste University of Hertfordshire, Hatfield, UK on 29-30 October 2015. The Conference and Programme Co-Chairs are Pro-fessor Amanda Jefferies and Dr Marija Cubric, both from the U Hertfordshire. The conference will be opened with a keynote address by Professor Patrick McAndrew, Director, Institute of Educational Tech-nology, Open University, UK with a tal learning: designing for the future of education." On the second day the keynote will be delivered by Professor John Traxler, University of Wolverhampton, UK on the subject of "Mol Just e-Learning with Mobiles." ECEL provides a valuable platform for individuals to present their research findings, display their work in progress and discuss conceptual advances i of e-Learning. At the same time, it provides an important opportunity for members of the EL community to come together with peers, share knowledge and exchange ideas. With a abstracts, after the double blind, peer review process there are 86 academic papers,16 Phd Papers, 5 Work in Progress papers and 1 non academic papers in these Conference Pro

reflect the truly global nature of research in the area with contributions from Algeria, Australia, Austria, Belgium, Botswana, Canada, Chile, Cov-entry, Czech Republic, Denmark, Egy France, Germany, Ireland, Japan, Kazakhstan, New Zealand, Nigeria, Norway, Oman, Portugal, Republic of Kazakhstan, Romania, Saudi Arabia, Scotland, Singapore, South Africa, Swede Republic, Turkey, Uganda, UK, United Arab Emirates, UK and USA, Zimbabwe. A selection of papers - those agreed by a panel of reviewers and the editor will be published in a specia the EJEL (Electronic Journal of e-Learning www.ejel.org).

Statistical Rethinking Jul 25 2019 Statistical Rethinking: A Bayesian Course with Examples in R and Stan builds readers' knowledge of and confidence in statistical modeling. Reflecting minor programming in today's model-based statistics, the book pushes readers to perform step-by-step calculations that are usually automated. This unique computational approa understand enough of the details to make reasonable choices and interpretations in their own modeling work. The text presents generalized linear multilevel models from a Bayesia simple logical interpretation of Bayesian probability and maximum entropy. It covers from the basics of regression to multilevel models. The author also discusses measurement err Gaussian process models for spatial and network autocorrelation. By using complete R code examples throughout, this book provides a practical foundation for performing statistic both PhD students and seasoned professionals in the natural and social sciences, it prepares them for more advanced or specialized statistical modeling. Web Resource The book is package (rethinking) that is available on the author's website and GitHub. The two core functions (map and map2stan) of this package allow a variety of statistical models to be model formulas.

Teaching Psychology Online Dec 30 2019 Intended as a resource for psychology educators ranging from teaching assistants to experienced faculty, this book shows readers how to e manage an online psychology course. Guidelines for preparing courses, facilitating communication, and assigning grades are provided along with activities and assessments geared psychology. Pedagogical theories and research are fused with the authors' teaching experiences to help maximize the reader's abilities as an online psychology instructor. The book education at the undergraduate level but it also includes material appropriate for graduate students and professionals. Readers will find helpful examples from all the major conten introductory, social, developmental, biological, abnormal, and positive psychology, and human sexuality. Every chapter is organized around 3 sections. The Purpose part introduces th and research. The Implementation section reviews the 'nuts and bolts' of online teaching, and the Troubleshooting section addresses key problems and potential solutions. 'Text bo The website http: //www.TeachingPsychologyOnline.com provides additional tips, links to related articles and other resources, and examples of online psychology assignments fron book addresses: launching your online course; enhancing student/instructor communication; modes of multimedia and how to integrate them into your course including lecture vide wikis, and social networking sites; creating activities for online courses; assessment and grading; and online education trend including doctoral level education. Ideal for instructors course, from introductory to upper-level undergraduate to graduate courses, this text can be used for developing on line courses in applied areas such as counseling, health, and i as for courses in social, cognitive, and developmental psychology. Instructors of any technical skill level can use this book, including those familiar with Blackboard to those who an Whether you are a seasoned pro or new to teaching psychology online, the tips in this book can help improve your instruction, reduce your prep time, and enhance your students'

Fundamentals of Physics May 03 2020 A beloved introductory physics textbook, now including exercises and an answer key, explains the concepts essential for thorough scientific u concise book, R. Shankar, a well-known physicist and contagiously enthusiastic educator, explains the essential concepts of Newtonian mechanics, special relativity, waves, fluids, t statistical mechanics. Now in an expanded edition—complete with problem sets and answers for course use or self-study—this work provides an ideal introduction for college-leve and engineering; for AP Physics students; and for general readers interested in advances in the sciences. The book begins at the simplest level, develops the basics, and reinforces solid foundation in the principles and methods of physics.

Absite May 27 2022 The ABSITE Smackdown! is the only ABSITE review book that comes with an ABSITE review video lecture series included with every copy sold¿paperback or Kin book is like no other available ABSITE review book. And that's because this isn't just a review book at all¿it's a toolbox to help you score your very best on the ABSITE and includes book.Most ABSITE review courses cost $595 or more¿plus the plane ticket at travel time! Not this one!Every purchase of ABSITE Smackdown! comes with an included video lecture anytime, anywhere and avoid traveling for an ABSITE review or missing out on essential content from the ABSITE Smackdown! review book. (Instructions to access online lecture s book sold whether that's a Kindle edition or paperback. This ABSITE video lecture series is included with your book at no extra cost, and requires email proof of purchase to unlock notes, 3 surgeons' experiences with the ABSITE, and all the classic review book content, ABSITE Smackdown! is like no other. ABSITE Smackdown! includes even more than essentia research on ABSITE performance and tips for preparing for the test that are NOT covered in any other work!

<u>Learning from Data</u> Oct 20 2021

Cases on Building Quality Distance Delivery Programs: Strategies and Experiences Mar 18 2021"This book targets pressing needs in distance education by connecting theory and practice, addre emerging leadership issues, and identifying best practices in teaching and learning"--Provided by publisher.

The Cambridge Handbook of Multimedia Learning Jun 23 2019 Digital and online learning is more prevalent than ever, making multimedia learning a primary objective for many instructors. Handbook of Multimedia Learning examines cutting-edge research to guide creative teaching methods in online classrooms and training. Recognized as the field's major reference v handbook helps define and shape this area of study. This third edition provides the latest progress report from the world's leading multimedia researchers, with forty-six chapters from words and pictures, particularly in computer-based environments. The chapters demonstrate what works best and establishes optimized practices. It systematically examines effective multimedia instruction and pinpoints exactly why certain practices succeed by isolating the boundary conditions. The volume is founded upon research findings in learning perspective in explaining precisely how effective teaching practices achieve their goals or fail to engage.

Handbook of Research on Writing and Composing in the Age of MOOCs Nov 20 The development of online learning environments has enhanced the availability of educational opportunities By implementing effective curriculum strategies, this ensures proper quality and instruction in online settings. The Handbook of Research on Writing and Composing in the Age of M reference source that overviews the current state of larger scale online courses and the latest competencies for teaching writing online. Featuring comprehensive coverage acros teaching in virtual classrooms, such as MOOC delivery models, digital participation, and user-centered instructional design, this book is ideal for educators, professionals, practition researchers interested in the latest material on writing and composition strategies for online classrooms.

The Algorithm Design Manual Apr 25 2022 This newly expanded and updated second edition of the best-selling classic continues to take the "mystery" out of designing algorithms, and and efficiency. Expanding on the first edition, the book now serves as the primary textbook of choice for algorithm design courses while maintaining its status as the premier prac algorithms for programmers, researchers, and students. The reader-friendly Algorithm Design Manual provides straightforward access to combinatorial algorithms technology, stres The first part, Techniques, provides accessible instruction on methods for designing and analyzing computer algorithms. The second part, Resources, is intended for browsing and r catalog of algorithmic resources, implementations and an extensive bibliography. NEW to the second edition: • Doubles the tutorial material and exercises over the first edition • Pr for lecturers, and a completely updated and improved website component with lecture slides, audio and video • Contains a unique catalog identifying the 75 algorithmic problems t practice, leading the reader down the right path to solve them • Includes several NEW "war stories" relating experiences from real-world applications • Provides up-to-date links lea algorithm implementations available in C, C++, and Java

<u>Designing and Teaching Online Courses During Uncertain Times</u> May 15 2021 Distance Learning is for leaders, practitioners, and decision makers in the fields of distance learning, e-learning, telecommunications, and related areas. It is a professional journal with applicable information for those involved with providing instruction to all kinds of learners, of all ages, using technologies of all types. Stories are written by practitioners for practitioners with the intent of providing usable information and ideas. Articles are accepted from authors--new interesting and important information about the effective practice of distance teaching and learning. This special issue of Distance Learning consists of several Ends and Means ar coauthored and that I have organized using the three major elements of the community of inquiry (CoI) framework. The last section has articles written by other authors who inc

The Elements of Statistical Learning Jun 20 2022 During the past decade there has been an explosion in computation and information technology. With it have come vast amounts of da such as medicine, biology, finance, and marketing. The challenge of understanding these data has led to the development of new tools in the field of statistics, and spawned new a machine learning, and bioinformatics. Many of these tools have common underpinnings but are often expressed with different terminology. This book describes the important ideas conceptual framework. While the approach is statistical, the emphasis is on concepts rather than mathematics. Many examples are given, with a liberal use of color graphics. It sh for statisticians and anyone interested in data mining in science or industry. The book's coverage is broad, from supervised learning (prediction) to unsupervised learning. The many networks, support vector machines, classification trees and boosting---the first comprehensive treatment of this topic in any book. This major new edition features many topics n including graphical models, random forests, ensemble methods, least angle regression & path algorithms for the lasso, non-negative matrix factorization, and spectral clustering. Th methods for "wide" data (p bigger than n), including multiple testing and false discovery rates. Trevor Hastie, Robert Tibshirani, and Jerome Friedman are professors of statistics at are prominent researchers in this area: Hastie and Tibshirani developed generalized additive models and wrote a popular book of that title. Hastie co-developed much of the statistic environment in R/S-PLUS and invented principal curves and surfaces. Tibshirani proposed the lasso and is co-author of the very successful An Introduction to the Bootstrap. Friedr many data-mining tools including CART, MARS, projection pursuit and gradient boosting.

<u>Introduction to Algorithms, third edition</u> Aug 18 2021 The latest edition of the essential text and professional reference, with substantial new material on such topics as vEB trees, multit dynamic programming, and edge-based flow. Some books on algorithms are rigorous but incomplete; others cover masses of material but lack rigor. Introduction to Algorithms unic comprehensiveness. The book covers a broad range of algorithms in depth, yet makes their design and analysis accessible to all levels of readers. Each chapter is relatively self-con unit of study. The algorithms are described in English and in a pseudocode designed to be readable by anyone who has done a little programming. The explanations have been kept sacrificing depth of coverage or mathematical rigor. The first edition became a widely used text in universities worldwide as well as the standard reference for professionals. The s chapters on the role of algorithms, probabilistic analysis and randomized algorithms, and linear programming. The third edition has been revised and updated throughout. It includes chapters, on van Emde Boas trees and multithreaded algorithms, substantial additions to the chapter on recurrence (now called "Divide-and-Conquer"), and an appendix on matrices treatment of dynamic programming and greedy algorithms and a new notion of edge-based flow in the material on flow networks. Many exercises and problems have been added f international paperback edition is no longer available; the hardcover is available worldwide.

Mathematical Modelling Oct 08 2020 This book continues the ICTMA tradition of influencing teaching and learning in the application of mathematical modelling. Each chapter shows h can be discussed during university lectures, in school classrooms and industrial research. International experts contribute their knowledge and experience by providing analysis, insi tackling large and complex problems by applying mathematical modelling. This book covers the proceedings from the Twelfth International Conference on the Teaching of Mathema Applications. Covers the proceedings from the Twelfth International Conference on the Teaching of Mathematical Modelling and Applications Continues the ICTMA tradition of influ learning in the application of mathematical modelling Shows how real life problems can be discussed during university lectures, in school classrooms and industrial research