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Epidemiology and the Delivery of Health Care Services Methods and Applications Springer Science & Business Media **This completely revised and updated edition of an outstanding text addresses the fundamental knowledge of epidemiological methods and statistics that can be applied to evolving systems, programs, technologies, and policies. This edition presents new chapters on causal thinking, ethics, and web resources, analyzes data on multinational increases in poverty and longevity, details the control of transmissible diseases, and explains quality management, and the evaluation of healthcare system performance. Hydrodynamics and Water Quality Modeling Rivers, Lakes, and Estuaries** John Wiley & Sons **The primary reference for the modeling of hydrodynamics and water quality in rivers, lake, estuaries, coastal waters, and wetlands This comprehensive text perfectly illustrates the principles, basic processes, mathematical descriptions, case studies, and practical applications associated with surface waters. It focuses on solving practical problems in rivers, lakes, estuaries, coastal waters, and wetlands. Most of the theories and technical approaches presented within have been implemented in mathematical models and applied to solve practical problems. Throughout the book, case studies are presented to demonstrate how the basic theories and technical approaches are implemented into models, and how these models are applied to solve practical environmental/water resources problems. This new edition of Hydrodynamics and Water Quality: Modeling Rivers, Lakes, and Estuaries has been updated with more than 40% new information. It features several new chapters, including one devoted to shallow water processes in wetlands as well as another focused on extreme value theory and environmental risk analysis. It is also supplemented with a new website that provides files needed for sample applications, such as source codes, executable codes, input files, output files, model manuals, reports, technical notes, and utility programs. This new edition of the book: Includes more than 120 new/updated figures and 450 references Covers state-of-the-art hydrodynamics, sediment transport, toxics fate and transport, and water quality in surface waters Provides essential and updated information on mathematical models Focuses on how to solve practical problems in surface waters—presenting basic theories and technical approaches so that mathematical models can be understood and applied to simulate processes in surface waters Hailed as "a great addition to any university library" by the Journal of the American Water Resources Association (July 2009), Hydrodynamics and Water Quality, Second Edition is an essential reference for practicing engineers, scientists, and water resource managers worldwide. Green Services Engineering, Optimization, and Modeling in the Technological Age** IGI Global **Concerns surrounding environmental sustainability have led to an increase of interest in environmentally-friendly systems. In the ICT realm, attention has been largely paid to green aspects of hardware; however, it is equally necessary to address this issue from the software perspective. Green Services Engineering, Optimization, and Modeling in the Technological Age is a valuable reference source of the latest scholarly research on the implementation of green processes into software systems, contributing novel principles, methodologies, and tools to improve software development. Featuring comprehensive and timely coverage on various areas in service strategy and modeling, engineering, and sustainability, this publication is a pivotal reference source for researchers, practitioners, advanced-level students, and end users in the software development realm. Learning Communities from Start to Finish New Directions for Student Services, Number 149** John Wiley & Sons **While the phrase "learning communities" has various definitions, at the heart of all programs is the goal of enhancing the student learning experience in the community of others. This volume provides valuable information about learning communities--from start to finish--including: • historical and theoretical foundations that guide these programs, • structures of learning communities that provide varied opportunities for student participation, with a focus on specific student populations who may benefit from learning community experiences, and • elements of staffing and assessment, as well as an annotated bibliography of recent learning community literature. The authors consider critical elements of learning community programs and offer recommendations and options for faculty and staff who work with, or hope to work with, this particular curricular and cocurricular learning structure. This the 149th volume of this Jossey-Bass higher education quarterly series. An indispensable resource for vice presidents of student affairs, deans of students, student counselors, and other student services professionals, New Directions for Student Services offers guidelines and programs for aiding students in their total development: emotional, social, physical, and intellectual. Proceedings of the Eighth International Conference on Management Science and Engineering Management Focused on Intelligent System and Management Science** Springer **This is the Proceedings of the Eighth International Conference on Management Science and Engineering Management (ICMSEM) held from July 25 to 27, 2014 at Universidade Nova de Lisboa, Lisbon, Portugal and organized by International Society of Management Science and Engineering Management (ISMSEM), Sichuan University (Chengdu, China) and Universidade Nova de Lisboa (Lisbon, Portugal). The goals of the conference are to foster international research collaborations in Management Science and Engineering Management as well as to provide a forum to present current findings. A total number of 138 papers from 14 countries are selected for the proceedings by the conference scientific committee through rigorous referee review. The selected papers in the first volume are focused on Intelligent System and Management Science covering areas of Intelligent Systems, Decision Support Systems, Manufacturing and Supply Chain Management. Networking for Nerds Find, Access and Land Hidden Game-Changing Career Opportunities Everywhere** John Wiley & Sons **Networking for Nerds provides a step-by-step guide to understanding how to access hidden professional opportunities through networking. With an emphasis on practical advice on how and why to network, you will learn how to formulate and execute a strategic networking plan that is dynamic, multidimensional, and leverages social media platforms and other networking channels. An invaluable resource for both established and early-career scientists and engineers (as well as networking neophytes!), Networking for Nerds offers concrete insight on crafting professional networks that are mutually beneficial and support the advancement of both your career goals and your scholarly ambitions. "Networking" does not mean going to one reception or speaking with a few people at one conference, and never contacting them again. Rather, "networking" involves a spectrum of activities that engages both parties, ensures everyone's value is appropriately communicated, and allows for the exploration of a win-win collaboration of some kind. Written by award-winning entrepreneur and strategic career planning expert Alaina G. Levine, Networking for Nerds is an essential resource for anyone working in scientific and engineering fields looking to enhance their professional planning for a truly fulfilling, exciting, and stimulating career. professional planning for a truly fulfilling, exciting, and stimulating career.Networking for Nerds provides a step-by-step guide to understanding how to access hidden professional opportunities through networking. With an emphasis on practical advice on how and why to network, you will learn how to formulate and execute a strategic networking plan that is dynamic, multidimensional, and leverages social media platforms and other networking channels. An invaluable resource for both established and early-career scientists and engineers (as well as networking neophytes!), Networking for Nerds offers concrete insight on crafting professional networks that are mutually beneficial and support the advancement of both your career goals and your scholarly ambitions. "Networking" does not mean going to one reception or speaking with a few people at one conference, and never contacting them again. Rather, "networking" involves a spectrum of activities that engages both parties, ensures everyone's value is appropriately communicated, and allows for the exploration of a win-win collaboration of some kind. Written by award-winning entrepreneur and strategic career planning expert Alaina G. Levine, Networking for Nerds is an essential resource for anyone working in scientific and engineering fields looking to enhance their professional planning for a truly fulfilling, exciting, and stimulating career. Defense Management Reform How to Make the Pentagon Work Better and Cost Less** Stanford University Press **Pentagon spending has been the target of decades of criticism and reform efforts. Billions of dollars are spent on weapons programs that are later abandoned. State-of-the-art data centers are underutilized and overstaffed. New business systems are built at great expense but fail to meet the needs of their users. Every Secretary of Defense for the last five Administrations has made it a priority to address perceived bloat and inefficiency by making management reform a major priority. The congressional defense committees have been just as active, enacting hundreds of legislative provisions. Yet few of these initiatives produce significant results, and the Pentagon appears to go on, as wasteful as ever. In this book, Peter Levine addresses why, despite a long history of attempted reform, the Pentagon continues to struggle to reduce waste and inefficiency. The heart of Defense Management Reform is three case studies covering civilian personnel, acquisitions, and financial management. Narrated with the insight of an insider, the result is a clear understanding of what went wrong in the past and a set of concrete guidelines to plot a better future. New Media Communication Skills for Engineers and IT Professionals: Trans-National and Trans-Cultural Demands Trans-National and Trans-Cultural Demands** IGI Global **The communication demands expected of today⬚s engineers and information technology professionals immersed in multicultural global enterprises are unsurpassed. New Media Communication Skills for Engineers and IT Professionals: Trans-National and Trans-Cultural Demands provides new and experienced practitioners, academics, employers, researchers, and students with international examples of best practices in new, as well as traditional, communication skills in increasingly trans-cultural, digitalized, hypertext environments. This book will be a valuable addition to the existing literature and resources in communication skills in both organizational and higher educational settings, giving readers comprehensive insights into the proficient use of a broad range of communication critical for effective professional participation in the globalized and digitized communication environments that characterize current engineering and IT workplaces. Beyond Sputnik** Kris Nia **Science and technology are responsible for almost every advance in our modern quality of life. Yet science isn't just about laboratories, telescopes and particle accelerators. Public policy exerts a huge impact on how the scientific community conducts its work. Beyond Sputnik is a comprehensive survey of the field for use as an introductory textbook in courses and a reference guide for legislators, scientists, journalists, and advocates seeking to understand the science policy-making process. Detailed case studies---on topics from cloning and stem cell research to homeland security and science education---offer readers the opportunity to study real instances of policymaking at work. Authors and experts Homer A. Neal, Tobin L. Smith, and Jennifer B. McCormick propose practical ways to implement sound public policy in science and technology and highlight how these policies will guide the results of scientific discovery for years to come. Homer A. Neal is the Samuel A. Goudsmit Distinguished University Professor of Physics, Interim President Emeritus, and Vice President for Research Emeritus at the University of**

Michigan, and is a former member of the U.S. National Science Board. Tobin L. Smith is Associate Vice President for Federal Relations at the Association of American Universities. He was formerly Assistant Director of the University of Michigan and MIT Washington, DC, offices. Jennifer B. McCormick is an Assistant Professor of Biomedical Ethics in the Division of General Internal Medicine at the Mayo College of Medicine in Rochester, Minnesota, and is the Associate Director of the Research Ethics Resource, part of the Mayo Clinic's NIH Clinical Translational Science Award research programs. GO BEYOND SPUTNIK ONLINE--Visit www.science-policy.net for the latest news, teaching resources, learning guides, and internship opportunities in the 21st-Century field of science policy. "Beyond Sputnik is a readable, concise, yet remarkably comprehensive introduction to contemporary science policy. It is devoid of 'wonkishness' yet serves the needs of policymakers and students alike. Because science and technology policy is of central importance in the twenty-first century this accessible volume is a godsend." ---Charles M. Vest, President of the National Academy of Engineering and Vice Chair of the National Research Council of the National Academies of Sciences and Engineering "This highly researched book is a treasure trove for anyone concerned with science policy relating to such challenges as providing energy, preserving the environment, assuring healthcare, creating jobs, and more." ---Norman Augustine, retired Chairman and CEO of Lockheed Martin Corporation and recipient of the 2008 Vannevar Bush Award from the National Science Board "Science policy is a subject of growing importance in the United States, yet there has long been a vacuum among textbooks in the field. Beyond Sputnik fills it splendidly and will be greeted with enthusiasm by students and faculty alike. Even those who have practiced the art for years will learn from it." ---Albert Teich, Director of Science and Policy Programs at the American Association for the Advancement of Science "Homer A. Neal, Tobin L. Smith, and Jennifer B. McCormick have written a landmark work calling for a national effort to restore our nation's power in the fields of science, energy, and education, as we did in the remarkable year following Sputnik. The next preident should read Beyond Sputnik and accept this call to action as did President Eisenhower." ---Ambassador David M. Abshire, President of the Center for the Study of the Presidency, Cofounder and Vice Chairman of the Center for Strategic and International Studies, and President of the Richard Lounsbery Foundation "At last we have a text that tells the story from where A. Hunter Dupree left off; an excellent core text for courses in science and technology policy, DC policymakers, and anyone who need Silica Stories Springer Do you know silica, the tetrahedra of silicon and oxygen constituting the crystals of New Agers and the desiccant in a box of new shoes? It's no mere mundane mineral. As chemically reacting silicate rocks, silica set off the chain of events known as the origin of life. As biomineralized opal, it is the cell wall, skeleton, spicules, and scales of organisms ornamenting numerous lobes of the tree of life. Cryptocrystalline silica made into stone tools helped drive the evolution of our hands and our capability for complex grammar, music, and mathematics. As quartz crystals, silica is impressively electric and ubiquitous in modern technology (think sonar, radios, telephones, ultrasound, and cheap but precise watches). Silica is inescapable when we take a drink or mow the lawn and it has already started to save the Earth from the carbon dioxide we're spewing into the atmosphere. This book tells these scientific tales and more, to give dear, modest silica its due. Encyclopedia of Information Science and Technology IGI Global Snippet "This set of books represents a detailed compendium of authoritative, research-based entries that define the contemporary state of knowledge on technology"--Provided by publisher. Issues in Informing Science & Information Technology, Volume 9 (2012) Informing Science The Oxford Textbook of Clinical Research Ethics OUP USA The Oxford Textbook of Clinical Research Ethics is the first comprehensive and systematic reference on clinical research ethics. Under the editorship of experts from the U.S. National Institutes of Health of the United States, the book's 73 chapters offer a wide-ranging and systematic examination of all aspects of research with human beings. Considering the historical triumphs of research as well as its tragedies, the textbook provides a framework for analyzing the ethical aspects of research studies with human beings. Through both conceptual analysis and systematic reviews of empirical data, the contributors examine issues ranging from scientific validity, fair subject selection, risk benefit ratio, independent review, and informed consent to focused consideration of international research ethics, conflicts of interests, and other aspects of responsible conduct of research. The editors of The Oxford Textbook of Clinical Research Ethics offer a work that critically assesses and advances scholarship in the field of human subjects research. Comprehensive in scope and depth, this book will be a crucial resource for researchers in the medical sciences, as well as teachers and students. Applied Statistics for Engineers and Scientists Using Microsoft Excel and Minitab Pearson This applied book for engineers and scientists, written in a non-theoretical manner, focuses on underlying principles that are important in a wide range of disciplines. It emphasizes the interpretation of results, the presentation and evaluation of assumptions, and the discussion of what should be done if the assumptions are violated. Integration of spreadsheet and statistical software complete this treatment of statistics. Chapter topics include describing and summarizing data; probability and discrete probability distributions; continuous probability distributions and sampling distributions; process control charts; estimation procedures; hypothesis testing; the design of experiments; and simple linear and multiple regression models. For individuals interested in learning statistics–without a high level of mathematical sophistication. Please Note: The CD-ROM originally included is no longer available. However, the data files can be downloaded at www.prenhall.com/sincich. And the PHStat2 content can be purchased standalone. Encyclopedia of Information Science and Technology, Fourth Edition IGI Global In recent years, our world has experienced a profound shift and progression in available computing and knowledge sharing innovations. These emerging advancements have developed at a rapid pace, disseminating into and affecting numerous aspects of contemporary society. This has created a pivotal need for an innovative compendium encompassing the latest trends, concepts, and issues surrounding this relevant discipline area. During the past 15 years, the Encyclopedia of Information Science and Technology has become recognized as one of the landmark sources of the latest knowledge and discoveries in this discipline. The Encyclopedia of Information Science and Technology, Fourth Edition is a 10-volume set which includes 705 original and previously unpublished research articles covering a full range of perspectives, applications, and techniques contributed by thousands of experts and researchers from around the globe. This authoritative encyclopedia is an all-encompassing, well-established reference source that is ideally designed to disseminate the most forward-thinking and diverse research findings. With critical perspectives on the impact of information science management and new technologies in modern settings, including but not limited to computer science, education, healthcare, government, engineering, business, and natural and physical sciences, it is a pivotal and relevant source of knowledge that will benefit every professional within the field of information science and technology and is an invaluable addition to every academic and corporate library. U.S. ForeignBorn Population: Trends and Selected Charcteristics DIANE Publishing Engineering a Better Future Interplay between Engineering, Social Sciences, and Innovation Springer This open access book examines how the social sciences can be integrated into the praxis of engineering and science, presenting unique perspectives on the interplay between engineering and social science. Motivated by the report by the Commission on Humanities and Social Sciences of the American Association of Arts and Sciences, which emphasizes the importance of social sciences and Humanities in technical fields, the essays and papers collected in this book were presented at the NSF-funded workshop 'Engineering a Better Future: Interplay between Engineering, Social Sciences and Innovation', which brought together a singular collection of people, topics and disciplines. The book is split into three parts: A. Meeting at the Middle: Challenges to educating at the boundaries covers experiments in combining engineering education and the social sciences; B. Engineers Shaping Human Affairs: Investigating the interaction between social sciences and engineering, including the cult of innovation, politics of engineering, engineering design and future of societies; and C. Engineering the Engineers: Investigates thinking about design with papers on the art and science of science and engineering practice. Handbook of Research on Empowering Early Childhood Educators With Technology IGI Global Computers and mobile technologies have become widely adopted as sought-after tools in the field of education. The prevalence of technology in early childhood education (ECE) is increasing, and teachers, both pre-service and in-service, are using best practices to integrate tools effectively to improve teaching and learning within the field. This includes settings such as childcare centers, family childcare, and community programs that have both educators and administrators adapting to the use of technology. Therefore, it has become critical to research and explore the best practices of technology integration and successful strategies to improve the use of technology in ECE. The Handbook of Research on Empowering Early Childhood Educators With Technology examines best practices that focus specifically on those that facilitate the development of competencies in teaching young children (birth to age 8) and technology integration. The chapters include information on the foundations of technology in early childhood education, content-specific technology applications, developmentally appropriate practices (DAP) for learners using technology, and how to meet diverse learner needs with technology. The target audience for this book is early childhood professionals, teacher educators, pre- and in-service teachers in early childhood settings, faculty and researchers in the field of education, instructional technologists, childcare and elementary school administrators, early education policy organizations, and advocacy groups that are interested in the best practices and successful strategies for implementing technology in ECE. Leading & Managing Occupational Therapy Services An Evidence-Based Approach F.A. Davis Put theory and research into practice for real-world success. Here's your introduction to the use of theory, research, and evidence in guiding your practice as an occupational therapy manager. From leadership and supervision to policies, program development, and continuous quality improvement, you'll find complete coverage of the full range of issues and functions managers encounter in the real worlds in which they practice. Whatever your role, the practical knowledge and the guidance you'll find here will help you become a more effective OT, colleague, and manager. Pharmacoepidemiology John Wiley & Sons Now in its fifth edition, Pharmacoepidemiology defines the discipline and provides the most comprehensive guidance of any book on the topic. Written by world renowned experts in the field, this valuable text surveys the research designs and sources of data available for pharmacoepidemiologic research, and provides descriptions of various automated data systems, along with the advantages and disadvantages of each. Incorporating perspectives from academia, industry and regulatory agencies, this book provides detailed insights into all aspects of pharmacoepidemiology. ICT Critical Infrastructures and Society 10th IFIP TC 9 International Conference on Human Choice and Computers, HCC10 2012, Amsterdam, The Netherlands, September 27-28, 2012, Proceedings Springer This book constitutes the refereed proceedings of the 10th IFIP TC 9 International Conference on Human Choice and Computers, HCC10 2012, held in Amsterdam, The Netherlands, in September 2012. The 37 revised full papers presented were carefully reviewed and selected for inclusion in the volume. The papers are organized in topical sections on national and international policies, sustainable and responsible innovation, ICT for peace and war, and citizens' involvement, citizens' rights and ICT. Putting People on the Map Protecting Confidentiality with Linked Social-Spatial Data National Academies Press Precise, accurate spatial information linked to social and behavioral data is revolutionizing social science by opening new questions for investigation and improving understanding of human behavior in its environmental context. At the same time, precise spatial data make it more likely that individuals can be identified, breaching the promise of confidentiality made when the data were collected. Because norms of science and government agencies favor open access to all scientific data, the tension between the benefits of open access and the risks associated with potential breach of confidentiality pose significant challenges to researchers, research sponsors, scientific institutions, and data archivists. This book offers recommendations for education, training, research, and practice to researchers, professional societies, federal agencies, institutional review boards, and data stewards. Multiple Dimensions of Caregiving and Disability Research, Practice, Policy Springer Science & Business Media Caring for people with disabilities often becomes an all-encompassing responsibility for one or more family members. To manage the multifaceted demands, caregivers must possess strong multitasking skills, including the ability to assist with daily life tasks; provide emotional support; help with financial affairs; mediate and advocate with health care providers. Maintaining balance within their own lives can become incredibly challenging for caregivers. More often than not, providing care for family members or loved ones occurs at the expense of the caregivers' well-being. And for caregivers who themselves have disabilities, it further complicates matters. Multiple Dimensions of Caregiving and Disability addresses concerns that have been long familiar to

the caregiver population and examines the current state of family care for individuals with disabilities. With a lifespan perspective, this concise reference reviews the literature on specific problems of caregivers and explores which care strategies are effective, promising, or lacking in available resources and support interventions. Contributors also explore the more fluid and subjective aspects of caregiving, such as feelings, spirituality, and family roles. Suggestions for future policy improvements, particularly within the public health sector, are discussed as well. Topics covered include: • Family dynamics and caregiving for people with disabilities. • Parent caregiving of children with disabilities. • Race, ethnicity, socioeconomic status, and caregiving. • Educational, training, and support programs for caregivers. • Emerging technologies to aid caregivers. • Developing partnerships between caregivers and health care providers. Multiple Dimensions of Caregiving and Disability is a must-have resource for researchers, scientist-practitioners, policy makers, and graduate students across such disciplines as clinical psychology, nursing, social work, public health, medicine, and social and education policy. Environmental Life Cycle Assessment of Goods and Services An Input-Output Approach Routledge Environmental life cycle assessment is often thought of as cradle to grave and therefore as the most complete accounting of the environmental costs and benefits of a product or service. However, as anyone who has done an environmental life cycle assessment knows, existing tools have many problems: data is difficult to assemble and life cycle studies take months of effort. A truly comprehensive analysis is prohibitive, so analysts are often forced to simply ignore many facets of life cycle impacts. But the focus on one aspect of a product or service can result in misleading indications if that aspect is benign while other aspects pollute or are otherwise unsustainable. This book summarizes the EIO-LCA method, explains its use in relation to other life cycle assessment models, and provides sample applications and extensions of the model into novel areas. A final chapter explains the free, easy-to-use software tool available on a companion website. (www.eiolca.net) The software tool provides a wealth of data, summarizing the current U.S. economy in 500 sectors with information on energy and materials use, pollution and greenhouse gas discharges, and other attributes like associated occupational deaths and injuries. The joint project of twelve faculty members and over 20 students working together over the past ten years at the Green Design Institute of Carnegie Mellon University, the EIO-LCA has been applied to a wide range of products and services. It will prove useful for research, industry, and in economics, engineering, or interdisciplinary classes in green design. Research Anthology on Collaboration, Digital Services, and Resource Management for the Sustainability of Libraries IGI Global Faced with increased budget cuts, libraries must continue to advance their services through new technologies and practices in order to keep pace with the rapid changes society is currently facing. The once traditional in-person services offered can no longer be the only option, and to keep themselves afloat, libraries must offer more in terms of digital services. The convenience of offering mobile and digital services brings a new wave of accessibility to libraries and a new question on just how much libraries will need to change to meet the newfound needs of its patrons. Beyond offering these digital services, libraries are incorporating other types of technology in multifaceted ways such as utilizing artificial intelligence practices, social media, and big data management. Moreover, libraries are increasingly looking for ways to partner and collaborate with the community, faculty, students, and other libraries in order to keep abreast of the best practices and needs of their users. The Research Anthology on Collaboration, Digital Services, and Resource Management for the Sustainability of Libraries explores emerging strategies and technologies that are redefining the role of the library within communities and academia. This reference book covers extensive ground on all the ways libraries have shifted to manage their resources, digitalize their services, and market themselves within the new technological revolution. These continued shifts for libraries come with benefits, challenges, and future projections that are critical for discussion as libraries continue to strive to remain updated and relevant in times of change. This book is ideal for librarians, archivists, collection managers, IT specialists, electronic resource librarians, practitioners, stakeholders, researchers, academicians, and students who are interested in the current state of libraries and how they are transforming to fit modern needs. Entrepreneurial Finance in Emerging Markets Exploring Tools, Techniques, and Innovative Technologies Springer Nature This book presents a wide range of tools and techniques used in entrepreneurial finance in emerging markets. Among them, venture capital is perhaps the best known, understood, and researched mode of entrepreneurial finance. However, a significant focus of the book is dedicated to other modes of entrepreneurial finance such as 'bootstrapping,' angel financing, bank financing, and other alternative means of financing, which could include government assistance programs, business incubation, technology parks, or family financing. In addition, the book highlights how new and innovative financial technologies (comprised of software, business processes, and other modern technologies), known under the term of FinTech, may support, enable, and enhance the provision of different modes of entrepreneurial finance in emerging markets. The book also discusses entrepreneurial finance in emerging markets in the context of women entrepreneurs. A comprehensive analysis of entrepreneurial finance in emerging market countries, this book will appeal to academics, researchers, and students of entrepreneurial finance, venture capital and private equity, entrepreneurship, and international business. The Foundations for Provenance on the Web Now Publishers Inc As the Web allows information sharing, discovery, aggregation, filtering and flow in an unprecedented manner, it also becomes very difficult to identify, reliably, the original source that produced an information item on the Web. Hence, provenance, i.e., the origin or source of something, is becoming an important concern, since it offers the means to verify data products, to infer their quality, to analyse the processes that led to them, and to decide whether they can be trusted. For instance, provenance enables the reproducibility of scientific results; provenance is necessary to track attribution and credit in curated databases; and, it is essential for reasoners to make trust judgements about the information they use over the Semantic Web. Since the emerging use of provenance in niche applications is undoubtedly demonstrating benefits, this survey contends that provenance can and should reliably be tracked and exploited on the Web. The Foundations for Provenance on the Web is aimed at anyone who discovers or publishes information on the Web, and who cares about its origin and its quality.Based on an analysis of literature, this survey puts forward the Open Provenance Vision, a visionary but pragmatic, integrative conceptual framework allowing the provenance of information to be expressed, tracked, and queried seamlessly, as it crosses information systems across the Web. Some foundational work has already resulted in significant advances in semantics, data models and systems, which can underpin this vision. However, some shortcomings inevitably exist and are discussed. For this vision to succeed, it requires a multi-disciplinary approach, since it requires contributions from many computer science sub-disciplines, but also other non technical fields given the human challenge that is anticipated. Encyclopedia of Information Science and Technology, Third Edition IGI Global "This 10-volume compilation of authoritative, research-based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities, prospective solutions, and future directions in the field of information science and technology"--Provided by publisher. Integrating E-Business Models for Government Solutions: Citizen-Centric Service Oriented Methodologies and Processes Citizen-Centric Service Oriented Methodologies and Processes IGI Global "The objective of this book is to examine issues and promote research initiatives in the area of effectiveness in e-government by suggesting integrated e-business models for government solutions, through citizen-centric service oriented methodologies and processes"--Provided by publisher. Dr. Dobb's Journal Software Tools for the Professional Programmer Phenotypic Switching Implications in Biology and Medicine Academic Press Phenotypic Switching: Implications in Biology and Medicine provides a comprehensive examination of phenotypic switching across biological systems, including underlying mechanisms, evolutionary significance, and its role in biomedical science. Contributions from international leaders discuss conceptual and theoretical aspects of phenotypic plasticity, its influence over biological development, differentiation, biodiversity, and potential applications in cancer therapy, regenerative medicine and stem cell therapy, among other treatments. Chapters discuss fundamental mechanisms of phenotypic switching, including transition states, cell fate decisions, epigenetic factors, stochasticity, protein-based inheritance, specific areas of human development and disease relevance, phenotypic plasticity in melanoma, prostate cancer, breast cancer, non-genetic heterogeneity in cancer, hepatitis C, and more. This book is essential for active researchers, basic and translational scientists, clinicians, postgraduates and students in genetics, human genomics, pathology, bioinformatics, developmental biology, evolutionary biology and adaptive opportunities in yeast. Thoroughly addresses the conceptual, experimental and translational aspects that underlie phenotypic plasticity Emphasizes quantitative approaches, nonlinear dynamics, mechanistic insights and key methodologies to advance phenotypic plasticity studies Features a diverse range of chapter contributions from international leaders in the field Financial Decision-Making for Engineers Yale University Press 10.2.2 Individual decision-making skills -- 10.2.3 Group decision-making skills -- 10.2.4 Organizational-level attributes -- 10.3 Case studies to explore in teams -- 10.4 Case A: The team that wasn't -- 10.4.1 Background -- 10.4.2 Grand challenge -- 10.5 Case B: Disruptive innovation at Tonowanda -- 10.5.1 Background -- 10.5.2 Grand challenge -- 10.6 Case C: Die Cast Testing -- 10.6.1 Background -- 10.6.2 Grand challenge -- 10.7 Case D: Welcome to FR4 -- 10.7.1 Background -- 10.7.2 Grand challenge -- A: Problems and Problem-Solving -- A.1 Design process analogy -- A.2 Two basic categories of problems -- A.3 Organizational form -- A.4 Problem solution outcomes -- B: Mechanics of Accounting -- B.1 Learning objectives -- B.2 Accounting to support financial statements -- B.2.1 T-accounts -- B.2.2 Chart of accounts -- B.2.3 General journal -- B.2.4 General ledger -- B.2.5 Adjusting entries -- B.3 Problems to explore -- C: Reference Tables -- D: Index -- A -- B -- C -- D -- E -- F -- G -- H -- I -- K -- L -- M -- N -- O -- P -- R -- S -- T -- U -- V -- W Increasing Student Engagement and Retention Using Online Learning Activities Wikis, Blogs and Webquests Emerald Group Publishing Uses case studies, surveys, and literature reviews to critically examine how these technologies are being used to improve writing and publishing skills, and literacy create engaging communities of practice, and as experiential learning tools. This volume discusses frameworks for deploying and assessing the effectiveness of these technologies. The Uninhabitable Earth A Story of the Future Penguin UK **SUNDAY TIMES AND THE NEW YORK TIMES BESTSELLER** 'An epoch-defining book' Matt Haig 'If you read just one work of non-fiction this year, it should probably be this' David Sexton, Evening Standard Selected as a Book of the Year 2019 by the Sunday Times, Spectator and New Statesman A Waterstones Paperback of the Year and shortlisted for the Foyles Book of the Year 2019 Longlisted for the PEN / E.O. Wilson Literary Science Writing Award It is worse, much worse, than you think. The slowness of climate change is a fairy tale, perhaps as pernicious as the one that says it isn't happening at all, and if your anxiety about it is dominated by fears of sea-level rise, you are barely scratching the surface of what terrors are possible, even within the lifetime of a teenager today. Over the past decades, the term "Anthropocene" has climbed into the popular imagination - a name given to the geologic era we live in now, one defined by human intervention in the life of the planet. But however sanguine you might be about the proposition that we have ravaged the natural world, which we surely have, it is another thing entirely to consider the possibility that we have only provoked it, engineering first in ignorance and then in denial a climate system that will now go to war with us for many centuries, perhaps until it destroys us. In the meantime, it will remake us, transforming every aspect of the way we live-the planet no longer nurturing a dream of abundance, but a living nightmare. Dr. Dobb's Journal of Software Tools for the Professional Programmer Information Assurance and Computer Security IOS Press Today's society can no longer function without information technology. Essential infrastructure including the transportation system, banking, the entertainment industry, the health care system, government, the military and the education system can no longer survive without modern technology. This increasing dependence on information technology creates new opportunities for the benefit of society. However, it also opens an avenue that can be exploited for illicit purposes. The stakes are high and many attacks go undetected or unreported. In addition to losses such as data or other forms of intellectual property, financial theft or the shut down of infrastructure, computer security attacks that target critical infrastructure such as nuclear power plants has the potential to cause human casualties on a massive and unprecedented scale. This book provides a discussion on a wide variety of viewpoints on some of the main challenges facing secure systems. This book will therefore be of major interest to all researchers in academia or industry with an interest in computer security. It is also relevant to graduate and advanced level undergraduate students who may want to explore the latest developments in the area of computer and information security. Occupational Risk Control Predicting and Preventing the Unwanted Routledge In Occupational Risk Control, Derek Viner brings together the

theoretical aspects of his subject into a coherent whole and then connects them with the needs both of practitioners and educators. The theory embraced by the author spans ideas formed between the industrial revolution and the present day, but he focuses on relatively more recent theoretical developments chiefly associated with people-orientated approaches in the discipline of psychology applied to management practice and in the application of analytical ideas to engineering design. The author looks specifically at developments in defence and petro-chemical systems and also considers the whole theory of risk that originated in the 1970s with the advent of nuclear power stations, but which he argues has advanced little since that time. He also introduces the geological and botanical sciences, on the grounds that they contribute much to our understanding of how to set about classifying phenomena. To this mix, is added the contribution of law to our understanding of moral obligations and that of statistics to our understanding of the management of uncertainty. Viner argues that amongst the observable consequences of the absence of a holistic approach, is the tendency for regulators to form (misinformed) theory on which to base legislation and the prevalence of commercial systems leading to disparate efforts by different industries. The net effect of all this, he suggests, is seen in the disasters of the magnitude of the Gulf of Mexico explosion and oil spill. Computer Science: New Generations GRIN Verlag Anthology from the year 2009 in the subject Computer Science - Miscellaneous, language: English, abstract: Computer Science is playing an increasingly important role in the frontiers of society and in the advancement of technology today. It is now regarded as a distinct multidisciplinary branch of science whose relevance and importance become stronger and stronger. With the unprecedented growth of computer power (in terms of speed, memory etc.), and simultaneously developments of efficient and smart algorithms and codes, it is now possible to develop applications that one decade ago only visionaries have dreamt of. A synergy amongst a wide variety of disciplines such as Physics, Chemistry, Metallurgy, Geology, Biology, Computer Science and Information Technology is gradually coming to a reality, because of the advancements in technology. This book bundles some outstanding research articles analyzing the future of computer science. From UNIVAC Computer to Evolutionary Programming and Byzantine Fault Tolerance many topics are covered from the field of computer science and related disciplines. Trust and Privacy in Digital Business Third International Conference, TrustBus 2006, Krakow, Poland, September 4-8, 2006, Proceedings Springer This book constitutes the refereed proceedings of the Third International Conference on Trust and Privacy in Digital Business, TrustBus 2006, held in conjunction with DEXA 2006. The book presents 24 carefully reviewed, revised full papers, organized in topical sections on privacy and identity management, security and risk management, security requirements and development, privacy enhancing technologies and privacy management, access control models, trust and reputation, security protocols and more. Smart Technology for Aging, Disability, and Independence The State of the Science John Wiley & Sons Independent living with smart technologies Smart Technology for Aging, Disability, and Independence: The State of the Science brings together current research and technological developments from engineering, computer science, and the rehabilitation sciences, detailing how its applications can promote continuing independence for older persons and those with disabilities. Leading experts from multiple disciplines worldwide have contributed to this volume, making it the definitive resource. The text begins with a thorough introduction that presents important concepts, defines key terms, and identifies demographic trends at work. Using detailed product descriptions, photographs and illustrations, and case studies, subsequent chapters discuss cutting-edge technologies, including: * Wearable systems * Human-computer interactions * Assisted vision and hearing * Smart wheelchairs * Handheld devices and smart phones * Visual sensors * Home automation * Assistive robotics * In-room monitoring systems * Telehealth After considering specific high-technology solutions, the text examines recent trends in other critical areas, such as basic assistive technologies, driving, transportation and community mobility, home modifications and design, and changing standards of elder care. Students and professionals in the rehabilitation sciences, healthcare providers, researchers in computer science and engineering, and non-expert readers will all appreciate this text's thorough coverage and clear presentation of the state of the science.