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A Sermon Notebook Springer
The overwhelming majority of a software system's lifespan is spent in use, not in design or implementation. So, why does conventional wisdom insist that software engineers focus primarily on the design and development of large-scale computing systems? In this collection of essays and articles, key members of Google's Site Reliability Team explain how and why their commitment to the entire lifecycle has enabled the company to successfully build, deploy, monitor, and maintain some of the largest software systems in the world. You'll learn the principles and practices that enable Google engineers to make systems more scalable, reliable, and efficient—lessons directly applicable to your organization. This book is divided into four sections: Introduction—Learn what site reliability engineering is and why it differs from conventional IT industry practices Principles—Examine the patterns, behaviors, and areas of concern that influence the work of a site reliability engineer (SRE) Practices—Understand the theory and practice of an SRE's day-to-day work: building and operating large distributed computing systems Management—Explore Google's best practices for training, communication, and meetings that your organization can use

The Big Book of Logos 4 S endpoints
This report provides a consensus on areas in which a civil engineering technologist might work, as well as the overall approach of combined foundational and specialty outcomes to provide a workable body of knowledge.

Sustainable Networking for Scientists and Engineers Springer Science & Business Media
• New York Times bestseller • The 100 most substantive solutions to reverse global warming, based on meticulous research by leading scientists and policymakers around the world "At this point in time, the Drawdown book is exactly what is needed; a credible, conservative solution-by-solution narrative that we can do it. Reading it is an effective inoculation against the widespread perception of doom that humanity cannot and will not solve the climate crisis. Reported by-effects include increased determination and a sense of grounded hope." —Per Espen Stoknes, Author, What We Think About When We Try Not To Think About Global Warming "There's been no real way for ordinary people to get an understanding of what they can do and what impact it can have. There remains no single, comprehensive, reliable compendium of carbon-reduction solutions across sectors. At least until now. . . . The public is hungry for this kind of practical wisdom." —David Roberts, Vox "This is the ideal environmental sciences textbook—only it is too interesting and inspiring to be called a textbook." —Peter Kareiva, Director of the Institute of the Environment and Sustainability, UCLA In the face of widespread fear and apathy, an international coalition of researchers, professionals, and scientists have come together to offer a set of realistic and bold solutions to climate change. One hundred techniques and practices are described here—some are well known; some you may have never heard of. They range from clean energy to educating girls in lower-income countries to land use practices that pull carbon out of the air. The solutions exist, are economically viable, and communities throughout the world are currently enacting them with skill and determination. If deployed collectively on a global scale over the next thirty years, they represent a credible path forward, not just to slow the earth's warming but to reach drawdown, that point in time when greenhouse gases in the atmosphere peak and begin to decline. These measures promise cascading benefits to human health, security, prosperity, and well-being—giving us every reason to see this planetary crisis as an opportunity to create a just and livable world.
Amer Society of Civil Engineers
Engineering Design, Planning and Management, Second Edition represents a compilation of essential resources, methods, materials and knowledge developed by the author and used over two decades. The book covers engineering design methodology through an interdisciplinary approach, with concise discussions and a visual format. It explores project management and creative design in the context of both established companies and entrepreneurial start-ups. Readers will discover the usefulness of the design process model through practical examples and applications from across engineering disciplines. Sections explain useful design techniques, including concept mapping and weighted decision matrices that are supported with extensive graphics, flowcharts and accompanying interactive templates. Discussions are organized around 12 chapters dealing with topics such design concepts and embodiments, decision-making, finance, budgets, purchasing, bidding, communication, meetings and presentations, reliability and system design, manufacturing design and mechanical design. Covers all steps in the design process Includes several chapters on project management, budgeting and teamwork, providing sufficient background to help readers effectively work with time and budget constraints Provides flowcharts, checklists and other templates that are useful for implementing successful design methods Presents examples and applications from several different engineering fields to show the general usefulness of the design process

model

Drawdown SPIE-International Society for Optical Engineering
This report focuses on outcomes of proposed changes in the way civil engineering is taught and learned, including the knowledge, skills, and attitudes necessary for entry into professional practice.

Minimum Design Loads for Buildings and Other Structures Elsevier
Can a system be considered truly reliable if it isn't fundamentally secure? Or can it be considered secure if it's unreliable? Security is crucial to the design and operation of scalable systems in production, as it plays an important part in product quality, performance, and availability. In this book, experts from Google share best practices to help your organization design scalable and reliable systems that are fundamentally secure. Two previous O'Reilly books from Google—Site Reliability Engineering and The Site Reliability Workbook—demonstrated how and why a commitment to the entire service lifecycle enables organizations to successfully build, deploy, monitor, and maintain software systems. In this latest guide, the authors offer insights into system design, implementation, and maintenance from practitioners who specialize in security and reliability. They also discuss how building and adopting their recommended best practices requires a culture that's supportive of such change. You'll learn about secure and reliable systems through: Design strategies Recommendations for coding, testing, and debugging practices Strategies to prepare for, respond to, and recover from incidents Cultural best practices that help teams across your organization collaborate effectively

Civil Engineering Body of Knowledge for the 21st Century Springer Nature
In the Guide to the Software Engineering Body of Knowledge (SWEBOK(R) Guide), the IEEE Computer Society establishes a baseline for the body of knowledge for the field of software engineering, and the work supports the Society's responsibility to promote the advancement of both theory and practice in this field. It should be noted that the Guide does not purport to define the body of knowledge but rather to serve as a compendium and guide to the knowledge that has been developing and evolving over the past four decades. Now in Version 3.0, the Guide's 15 knowledge areas summarize generally accepted topics and list references for detailed information. The editors for Version 3.0 of the SWEBOK(R) Guide are Pierre Bourque (Ecole de technologie superieure (ETS), Universite du Quebec) and Richard E. (Dick) Fairley (Software and Systems Engineering Associates (S2EA)).

Principles of Economics 2e Springer
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.

Consulting-specifying Engineer Amer Society of Civil Engineers
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.

The World Book Encyclopedia Plunkett Research, Ltd.
Replace those Sunday bulletins you use for taking notes with this beautiful resource for permanent note keeping. Here is the perfect notebook to help recall and revisit the memorable messages heard on Sunday morning and at other times. Spiral bound for ease of use, each notebook is durable and meant to last. Space is provided to record the date, speaker, title of the sermon, relevant Scripture passages, and personal reflections for over a year. Great also for Bible study notes and for use in sermon preparation. You will wonder how you managed without it.

Occupational Outlook Handbook Wipf and Stock Publishers
The fourth book in David E. Carter' s perennially bestselling Big Book of Logos series was the largest yet, and is now available in paperback! The Big Book of Logos 4 shows what' s new and compelling in the world of logo design, providing endless inspiration for graphic designers in the critical ' idea-generating' phase. This collection showcases effective logo design from around the world; the variety of styles and techniques on display cover the complete creative spectrum.

Agricultural Salinity Assessment and Management Penguin
Business cards are a statement of personality and style, capable of conveying much more than contact information. They represent the creativity and intention, or ambition, of a company in a very portable format. As an historical artefact in the digital age, the business card is constantly in evolving and only those that truly stand out are memorable. One way to achieve the noteworthy effect is through the use of interactive features. Others include the use of colour, unusual shapes, or innovative materials. This book collects together all of these techniques and designs.

Engineering with Nature Breton Publishing Company
Gustaf Aulen's classic work, 'Christus Victor', has long been a standard text on the atonement. Aulen applies history of ideas' methodology to historical theology in tracing the development of three views of the atonement. Aulen asserts that in traditional histories of the doctrine of the atonement only two views have usually been presented, the objective/Anselmian and the subjective/Aberlardian views. According to Aulen, however, there is another type of atonement doctrine in which Christ overcomes

the hostile powers that hold humanity in subjection, at the same time that God in Christ reconciles the world to Himself. This view he calls the "classic" idea of the atonement. Because of its predominance in the New Testament, in patristic writings, and in the theology of Luther, Aulen holds that the classic type may be called the distinctively Christian idea of the atonement.

Christus Victor Amer Society of Civil Engineers
An encyclopedia designed especially to meet the needs of elementary, junior high, and senior high school students.

Creative Business Cards Bookbaby
An Introduction to Statistical Learning provides an accessible overview of the field of statistical learning, an essential toolset for making sense of the vast and complex data sets that have emerged in fields ranging from biology to finance to marketing to astrophysics in the past twenty years. This book presents some of the most important modeling and prediction techniques, along with relevant applications. Topics include linear regression, classification, resampling methods, shrinkage approaches, tree-based methods, support vector machines, clustering, and more. Color graphics and real-world examples are used to illustrate the methods presented. Since the goal of this textbook is to facilitate the use of these statistical learning techniques by practitioners in science, industry, and other fields, each chapter contains a tutorial on implementing the analyses and methods presented in R, an extremely popular open source statistical software platform. Two of the authors co-wrote The Elements of Statistical Learning (Hastie, Tibshirani and Friedman, 2nd edition 2009), a popular reference book for statistics and machine learning researchers. An Introduction to Statistical Learning covers many of the same topics, but at a level accessible to a much broader audience. This book is targeted at statisticians and non-statisticians alike who wish to use cutting-edge statistical learning techniques to analyze their data. The text assumes only a previous course in linear regression and no knowledge of matrix algebra.

Piezoelectric Aeroelastic Energy Harvesting Scientific Publishers
Civil Engineering Body of Knowledge
Building Secure and Reliable Systems Harmony
Dennis Randolph provides a rich collection of rips and recommendations on how to approach and solve the questions most commonly encountered by engineers at the local government level.

Guide to the Software Engineering Body of Knowledge (Swebok(r)) The Princeton Review
Piezoelectric Aeroelastic Energy Harvesting explains the design and implementation of piezoelectric energy harvesting devices based on fluid-structure interaction. There is currently an increase in demand for low power electronic instruments in a range of

settings, and recent advances have driven their energy consumption downwards. As a result, the possibility to extract energy from an operational environment is of growing significance to industry and academic research globally. This book solves problems related to the integration of smart structures with the aeroelastic system, addresses the importance of the aerodynamic model on accurate prediction of the performance of the energy harvester, describes the overall effect of the piezoelectric patch on the dynamics of the system, and explains different mechanisms for harvesting energy via fluid-structure interaction. This wealth of innovative technical information is supported by introductory chapters on piezoelectric materials, energy harvesting and circuits, and fluid structure interaction, opening this interdisciplinary topic up for readers with a range of backgrounds. Provides new designs of piezoelectric energy harvesters for fluid-structure interaction Explains how to correctly model aerodynamics for effective aeroelastic energy harvesting Numerical examples allow the reader to practice the design, modeling and implementation of piezoelectric energy harvesting devices

Inner Engineering Academic Press
This 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.

Guiding Principles for the Nation's Critical Infrastructure Newnes
This open access book explores the global challenges and experiences related to digital entrepreneurial activities, using carefully selected examples from leading companies and economies that shape world business today and tomorrow. Digital entrepreneurship and the companies steering it have an enormous global impact; they promise to transform the business world and change the way we communicate with each other. These companies use digitalization and artificial intelligence to enhance the quality of decisions and augment their business and customer operations. This book demonstrates how cloud services are continuing to evolve; how cryptocurrencies are traded in the banking industry; how platforms are created to commercialize business, and how, taken together, these developments provide new opportunities in the digitalized era. Further, it discusses a wide range of digital factors changing the way businesses operate, including artificial intelligence, chatbots, voice search, augmented and virtual reality, as well as cyber threats and data privacy management. " Digitalization mirrors the Industrial Revolution's impact. This book provides a complement of perspectives on the opportunities emanating from such a deep seated change in our economy. It is a comprehensive collection of thought leadership mapped into a very useful framework. Scholars, digital entrepreneurs and practitioners will benefit from this timely work." Gina O' Connor, Professor of Innovation Management at Babson College, USA " This book defines and delineates the requirements for companies to enable their businesses to succeed in a post-COVID19 world. This book deftly examines how to accomplish and achieve digital entrepreneurship by leveraging cloud computing, AI, IoT and other critical technologies. This is truly a unique " must-read" book because it goes beyond theory and provides practical examples." Charlie Isaacs, CTO of Customer Connection at Salesforce.com, USA "This book provides digital entrepreneurs useful guidance identifying, validating and building their venture. The international authors developed new perspectives on digital entrepreneurship that can support to create impact ventures." Felix Staeritz, CEO FoundersLane, Member of the World Economic Forum Digital Leaders Board and bestselling author of FightBack, Germany