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The Conscious Warrior Harmony
Art of Doing Science and EngineeringCRC Press
Make, Think, Imagine Sterling

As more companies move toward microservices and other distributed technologies, the complexity of these systems increases. You can't remove the complexity, but through Chaos Engineering you can discover vulnerabilities and prevent outages before they impact your customers. This practical guide shows engineers how to navigate complex systems while optimizing to meet business goals. Two of the field's prominent figures, Casey Rosenthal and Nora Jones, pioneered the discipline while working together at Netflix. In this book, they expound on the what, how, and why of Chaos Engineering while facilitating a conversation from practitioners across industries. Many chapters are written by contributing authors to widen the perspective across verticals within (and beyond) the software industry. Learn how Chaos Engineering enables your organization to navigate complexity Explore a methodology to avoid failures within your application, network, and infrastructure Move from theory to practice through real-world stories from industry experts at Google, Microsoft, Slack, and LinkedIn, among others Establish a framework for thinking about complexity within software systems Design a Chaos Engineering program around game days and move toward highly targeted, automated experiments Learn how to design continuous collaborative chaos experiments

Civil Engineering Body of Knowledge Fire Engineering Books

Practical guide for lift directors, lift planners, rigging engineers, site superintendents, field engineers, rigging foremen, heavy lift managers, heavy haul planners, crane operators, and advanced riggers
Drive to Survive Dorling Kindersley Ltd

This book presents an introduction to Mastercam X8 Lathe for anyone with little or no prior experience with the software. It can be used in virtually any educational setting -- from four-year engineering schools to community colleges and voc/tech schools to industrial training centers -- and will also serve as a reliable reference for on-the-job use or as a self-study manual. Features: emphasizes student-friendly visual displays in place of long explanations and definitions; uses numerous examples that provide step-by-step instructions with visual displays; eliminates flipping between pages by featuring all explanations on the same page as the example; covers all aspects of using Mastercam X8 to machine various types of parts and contains a process plan describing the machining operations to be carried out to machine each part; contains student exercises at the end of each chapter. --

Engineers Black Book Elsevier

Make 25 fantastic fliers! You can create a sky-full of fabulous-looking paper planes, from old-time gliders to cutting-edge jets, that soar, swoop, sail and dive. The projects include fascinating background information on every model.

Pride & Ownership Fascinating Facts

Data-driven discovery is revolutionizing the modeling, prediction, and control of complex systems. This textbook brings together machine learning, engineering mathematics, and mathematical physics to integrate modeling and control of dynamical systems with modern methods in data science. It highlights many of the recent advances in scientific computing that enable data-driven methods to be applied to a diverse range of complex systems, such as turbulence, the brain, climate, epidemiology, finance, robotics, and autonomy. Aimed at advanced undergraduate and beginning graduate students in the engineering and physical sciences, the text presents a range of topics and methods from introductory to state of the art. Data-Driven Science and Engineering Simon and Schuster

Shannon McQuaide combines her personal experiences, interviews with firefighters and research on yoga and mindfulness in this new inspiring book. Growing up in a firefighter family, she understands the physical and emotional toll the job can have on firefighters and their families. From the science behind how these practices work to the beautiful illustrations and step-by-step instructions, this book will motivate both beginners and veteran practitioners alike. McQuaide ' s FireFlex Yoga classes are specifically created for first responders to enhance their mental and physical health and improve their job performance while releasing their true inner warrior. WHAT THEY ARE SAYING: "This is more than 'yoga' training, this is well-rounded resiliency training. - CAL Fire Training Chief Rob Wheatley "I am going to bring mindfulness into SCBA drills and also the PT warm-up/cool-down drills." - CAL Fire Training Captain Daniel Cunningham FEATURES: --The most up-to-date benefits of yoga for first responders --More than 50 beautifully illustrated postures, with instructions and specific applications related to the physical duties of a firefighter --Simple, easy-to-do mindfulness techniques you can do anywhere

Searching Smarter Department of Defense

**** A New York Times Bestseller ** NAMED ONE OF THE BEST BOOKS OF THE YEAR BY:** Time • The New Yorker • NPR • GQ • Elle • Vulture • Fortune • Boing Boing • The Irish Times • The New York Public Library • The Brooklyn Public Library "A complex, smart and ambitious book that at first reads like a self-help manual, then blossoms into a wide-ranging political manifesto."—Jonah Engel Bromwich, The New York Times Book Review One of President Barack Obama's "Favorite Books of 2019"

Porchlight's Personal Development & Human Behavior Book of the Year In a world where addictive technology is designed to buy and sell our attention, and our value is determined by our 24/7 data productivity, it can seem impossible to escape. But in this inspiring field guide to dropping out of the attention economy, artist and critic Jenny Odell shows us how we can still win back our lives. Odell sees our attention as the most precious—and overdrawn—resource we have. And we must actively and continuously choose how we use it. We might not spend it on things that capitalism has deemed important ... but once we can start paying a new kind of attention, she writes, we can undertake bolder forms of political action, reimagine humankind ' s role in the environment, and arrive at more meaningful understandings of happiness and progress. Far from the simple anti-technology screed, or the back-to-nature meditation we read so often, How to do Nothing is an action plan for thinking outside of capitalist narratives of efficiency and techno-determinism. Provocative, timely, and utterly persuasive, this book will change how you see your place in our world.

New Materials in Civil Engineering University of Illinois Press

An introduction to computer engineering for babies. Learn basic logic gates with hands on examples of buttons and an output LED.

EMS by Fire Melville House

Elasticity: Theory and Applications reviews the theory and applications of elasticity. The book is divided into three parts. The first part is concerned with the kinematics of continuous media; the second part focuses on the analysis of stress; and the third part considers the theory of elasticity and its applications to engineering problems. This book consists of 18 chapters; the first of which deals with the kinematics of continuous media. The basic definitions and the operations of matrix algebra are presented in the next chapter, followed by a discussion on the linear transformation of points. The study of finite and linear strains gradually introduces the reader to the tensor concept. Orthogonal curvilinear coordinates are examined in detail, along with the similarities between stress and strain. The chapters that follow cover torsion; the three-dimensional theory of linear elasticity and the requirements for the solution of elasticity problems; the method of potentials; and topics related to cylinders, disks, and spheres. This book also explores straight and curved beams; the semi-infinite elastic medium and some of its related problems; energy principles and variational methods; columns and beam-columns; and the bending of thin flat plates. The final chapter is devoted to the theory of thin shells, with emphasis on geometry and the relations between strain and displacement. This text is intended to give advanced undergraduate and graduate students sound foundations on which to build advanced courses such as mathematical elasticity, plasticity, plates and shells, and those branches of mechanics that require the analysis of strain and stress.

Engineers Fire Engineering Books

This book serves as a guide for the seasoned veteran, the new firefighter and everyone in between, bringing them together for what it all takes to have that love for the job.

Baby Steps: Intro to Computer Engineering Fire Engineering Books

Full of great tales of achievement and ingenuity, Engineers celebrates 80 of the greatest engineers that ever lived and the stamp they have left on the world. Learn all about how their projects have changed the course of history and added to human progress from the men who built the Great Pyramid in Egypt to the Industrial Revolution and the impressive structures of Isambard Kingdom Brunel and on to the pioneers of space travel and the computer scientists of today. From initial concepts to prototypes and finished designs, Engineers is full to bursting with technical drawings, specially commissioned artworks, blueprints and virtual tours that help bring the structures, inventions and technological breakthroughs to life. Engineers is for anyone who is intrigued by the power of the pioneering mind.

Elasticity McGraw Hill Professional

In the fire service, information is critical to firefighter safety and efficiency. Fire Engineering's Study Guide for Firefighter I and II will provide the student with a comprehensive review of the material presented in each chapter of Fire Engineering's Handbook, providing a further check on how well the student absorbed the material. The Study Guide's multiple-choice questions provide both direct knowledge and situational application of the material. It is suggested that the student complete the Study Guide chapter-by-chapter, both before reading the Handbook as a pre-test and after reading the Handbook as an informational comprehension check. Used properly, Fire Engineering's Study Guide will reinforce the information learned and enhance the effectiveness of the educational package. Features: * Multiple-choice, short-answer, and true-or-false questions for each chapter of the Handbook * Answers at the end of each chapter * Corresponding page numbers to each answer in the Handbook

The Everything Store HarperCollins

The increasing presence of women within engineering programs is one of today's most dramatic developments in higher education. Long before, however, a group of talented and determined women carved out new paths in the College of Engineering at the University of Illinois. Laura D. Hahn and Angela S. Wolters bring to light the compelling hidden stories of these pioneering figures. When Mary Louisa Page became the College's first female graduate in 1879, she also was the first American woman ever awarded a degree in architecture. Bobbie Johnson's insistence on "a real engineering job" put her on a path to the Apollo and Skylab programs. Grace Wilson, one of the College's first female faculty members, taught and mentored a generation of women. Their stories and many others illuminate the forgotten history of women in engineering. At the same time, the authors offer insights into the experiences of today's women from the College -- a glimpse of a brighter future, one where more women in STEM fields apply their tireless dedication to the innovations that shape a better tomorrow.

Mastering the Fire Service Assessment Center Rockridge Press

The Code of Practice for Electric Vehicle Charging Equipment Installation, 3rd Edition has been updated to align with the current requirements of BS 7671. This includes updated guidance on the electrical installation requirements of BS 7671:2018 (Section 722 Electric vehicle charging installations) to be published in July 2018. The Code of Practice provides an overview of electric vehicle charging equipment, considerations needed prior to installation, physical installation requirements, relevant electrical installation requirements of BS 7671:2018 and specific requirements when installing electric vehicle charging equipment in location's such as dwellings, on-street locations, commercial and industrial premises. Also included are useful installation checklists and risk assessment templates. Therefore this publication provided useful guidance for anyone interested in the installation of electric vehicle charging points. This is a practical guide for use by anyone planning to install electric vehicle charging equipment. It provides specific electrical installation requirements for electrical contractors as well as essential guidance for anyone planning to specify, procure or manage the installation of such equipment.

Enhanced Oil Recovery 1st Standards

This report outlines 21 foundational, technical, and professional practice learning outcomes for individuals entering the professional practice of civil engineering.

My Remarkable Journey Cambridge University Press

Firefighter, medic and author Michael Morse bares his soul with first-person accounts from a 25-year career vividly defining the first responder ' s vital role as a medical professional. EMS by Fire: The Making of a Fire Medic puts the reader at the scene “ where people desperately wait, frantic, impatient, lonely, dying or dead ... the public we serve is not interested in who arrives at their emergency, as long somebody comes, preferably well trained and well equipped.” “ Writing for and about firefighters and EMS personnel from the ambulance officer ' s seat is tricky on the good days, career suicide on the bad, and quite gratifying on the rest. “ The truth is that the ratio of misery to inspiration is greatly exaggerated in my writings, with misery beating inspiration by a 20-1 margin. Yet, it is those moments of inspiration that make the misery bearable ... ” Features: Gain a better understanding of the jobs of fire-based EMS personnel Improve your skills and build teamwork between firefighters and EMS True stories and real-life scenarios from a veteran of the EMS and Fire service

Occupational Outlook Handbook John Wiley & Sons

From acoustics to holograms--explore awesome engineering facts for kids ages 8 to 12 Did you know that computer chips can be thousands of times smaller than a grain of sand? Or that whale fins inspired the wind turbine? The Fascinating Engineering Book for Kids is packed with 500 incredible facts about every branch of engineering with full-color pictures to match! Kids (and adults) will learn about some of the most famous and influential engineers in history, and explore how engineers helped build so many of the amazing things in our world, from underwater machines to spaceships and satellites! Dig into the best in kids' engineering books with fascinating trivia like: The Ancient Theatre of Epidaurus is an amphitheater in Greece built in the fourth century. It was designed so well that it is still used today! GloFish are genetically engineered to enhance their luminescence--a glow that can be seen under ultraviolet lights. Robotic engineers can work in animatronics where they design and build robots for entertainment, like the ones you see in theme parks. Inspire curiosity and a lifelong love of science with this mind-boggling book of engineering for kids.

Fire Engineering's Study Guide for Firefighter I and II Industrial Press

New Materials in Civil Engineering provides engineers and scientists with the tools and methods needed to meet the challenge of designing and constructing more resilient and sustainable infrastructures. This book is a valuable guide to the properties, selection criteria, products, applications, lifecycle and recyclability of advanced materials. It presents an A-to-Z approach to all types of materials, highlighting their key performance properties, principal characteristics and applications. Traditional materials covered include concrete, soil, steel, timber, fly ash, geosynthetic, fiber-reinforced concrete, smart materials, carbon fiber and reinforced polymers. In addition, the book covers nanotechnology and biotechnology in the development of new materials. Covers a variety of materials, including fly ash, geosynthetic, fiber-reinforced concrete, smart materials, carbon fiber reinforced polymer and waste materials Provides a “ one-stop resource of information for the latest materials and practical applications Includes a variety of different use case studies

Site Reliability Engineering PennWell Books

Foundations on Expansive Soils provides the practicing engineer with a summary of the state-of-the-art of expansive soils and practical solutions based on the author's experience. The book is organized into two parts. Part I deals with theory and practice, and summarizes some of the theoretical physical properties of expansive soils. It also discusses various techniques employed to found structures on expansive soils such as drilled pier foundation, mat foundation, moisture control, soil replacement, and chemical stabilization. Topics covered include the origin, mineralogical composition, and the basic structure of expansive soils; the migration of water, swelling potential, and swelling pressure; site investigations and laboratory testing; moisture control; and soil stabilization. Part II presents case studies on the following: distress caused by pier uplift; distress caused by the improper design and construction of a drilled pier foundation system; distress caused by heaving of footing pad and floor slab; distress caused by heaving of continuous footings; and distress caused by a rise of ground water.