
Best Books Science Engineering

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Art of Doing Science
and Engineering

Routledge

Power, Speed, and Form is the first accessible account of the engineering behind eight breakthrough innovations that transformed American life from 1876 to 1939—the telephone, electric power, oil refining, the automobile, the airplane, radio, the long-span steel bridge, and building with reinforced concrete. Beginning with Thomas Edison's system to generate and

distribute electric power, the authors explain the Bell telephone, the oil refining processes of William Burton and Eugene Houdry, Henry Ford's Model T car and the response by General Motors, the Wright brothers' airplane, radio innovations from Marconi to Armstrong, Othmar Ammann's George Washington Bridge, the reinforced concrete structures of John Eastwood and Anton Tedesko, and in the 1930s, the Chrysler Airflow car and the Douglas DC-3 airplane. These innovations used simple numerical ideas, which the Billingtons integrate with short narrative accounts of each breakthrough—a unique and effective way to introduce engineering and how engineers think. The

book shows how the best engineering exemplifies efficiency, economy and, where possible, elegance. With Power, Speed, and Form, educators, first-year engineering students, liberal arts students, and general readers now have, for the first time in one volume, an accessible and readable history of engineering achievements that were vital to America's development and that are still the foundations of modern life.

Stuff Matters Cambridge
University Press

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.

ABCs of Engineering Packt

Publishing Ltd

Little scientists will understand science in seconds with this essential homework-helping guide. Learn about everything from molecules and magnetism to rockets and radio waves and find out how a hot-air balloon rises, how erosion flattens mountains, how light waves zip through space, and how the human eye sees colours! With STEM (science, technology, engineering, and maths) subjects ever more important in today's technological world, *How to be Good at Science, Technology, and Engineering* is the perfect book to inspire and educate inquisitive young minds and prepare them for the future. This is the perfect homework guide for parents and their children, with all core curriculum areas of science included. Cool illustrations show the appliance of science in the real world: see how microchips, tractors, and suspension bridges work. Hands-on projects feature fun experiments to try at home or school: try polishing old coins in vinegar, or make an erupting volcano with baking soda.

[The Book of Massively Epic Engineering Disasters](#) Ballantine

Books

Authored by 50 top academic, government and industry researchers, this handbook explores mature, evolving technologies for a clean, economically viable alternative to non-renewable energy. In so doing, it also discusses such broader topics as the environmental impact, education, safety and regulatory developments. The text is all-encompassing, covering a wide range that includes hydrogen as an energy carrier, hydrogen for storage of renewable energy, and incorporating hydrogen technologies into existing technologies. Ceramic Materials Basic Books A New York Times Bestseller Explainer-in-Chief David Macaulay updates the worldwide bestseller *The New Way Things Work* to capture the latest developments in the technology that most impacts our lives. Famously packed with information on the inner workings of everything from windmills to Wi-Fi, this extraordinary and humorous book both guides readers through the fundamental principles of machines, and

shows how the developments of the past are building the world of tomorrow. This sweepingly revised edition embraces all of the latest developments, from touchscreens to 3D printer. Each scientific principle is brilliantly explained--with the help of a charming, if rather slow-witted, woolly mammoth. An illustrated survey of significant inventions closes the book, along with a glossary of technical terms, and an index. What possible link could there be between zippers and plows, dentist drills and windmills? Parking meters and meat grinders, jumbo jets and jackhammers, remote control and rockets, electric guitars and egg beaters? Macaulay explains them all.

Inner Engineering Penguin Engineering is what brings machines to life. Little learners can discover more about engineering at home by reading the simple explanations and doing the beautifully illustrated activities on each page. Start a lifelong passion for STEM subjects and inspire children to, one day, contribute an invention of their own to the world.

Hydrogen Science and Engineering, 2 Volume Set Mit Press

Resumen: Are you a post-graduate student in Engineering, Science or Technology who needs to know how to: Prepare abstracts, theses and journal

papers Present your work orally Present a progress report to your funding body Would you like some guidance aimed specifically at your subject area? ... This is the book for you; a practical guide to all aspects of post-graduate documentation for Engineering, Science and Technology students, which will prove indispensable to readers. *Writing for Science and Engineering* will prove invaluable in all areas of research and writing due its clear, concise style. The practical advice contained within the pages alongside numerous examples to aid learning will make the preparation of documentation much easier for all students. The Fascinating Engineering Book for Kids MIT Press RETURNING TO TELEVISION AS AN ALL-NEW MINISERIES ON FOX *Cosmos* is one of the bestselling science books of all time. In clear-eyed prose, Sagan reveals a jewel-like blue world inhabited by a life form that is just beginning to discover its own identity and to venture into the vast ocean of space. Featuring a new Introduction by Sagan 's collaborator, Ann Druyan, full color illustrations, and a new Foreword by astrophysicist Neil deGrasse Tyson, *Cosmos* retraces the fourteen billion years of cosmic evolution that

have transformed matter into consciousness, exploring such topics as the origin of life, the human brain, Egyptian hieroglyphics, spacecraft missions, the death of the Sun, the evolution of galaxies, and the forces and individuals who helped to shape modern science. Praise for Cosmos

“ Magnificent . . . With a lyrical literary style, and a range that touches almost all aspects of human knowledge, Cosmos often seems too good to be true. ” —The Plain Dealer

“ Sagan is an astronomer with one eye on the stars, another on history, and a third—his mind ’ s—on the human condition. ” —Newsday

“ Brilliant in its scope and provocative in its suggestions . . . shimmers with a sense of wonder. ” —The Miami Herald

“ Sagan dazzles the mind with the miracle of our survival, framed by the stately galaxies of space. ” —Cosmopolitan

“ Enticing . . . iridescent . . . imaginatively illustrated. ” —The New York Times Book Review

[Research and Technical Writing for Science and Engineering](#) Houghton Mifflin Harcourt

Fans of Chris Ferrie's ABCs of Biology, ABCs of Space, and ABCs of Physics will love this introduction to engineering for babies and toddlers! This alphabetical installment of the Baby University baby board

book series is the perfect introduction to science for infants and toddlers. It makes a wonderful science baby gift for even the youngest engineer. Give the gift of learning to your little one at birthdays, baby showers, holidays, and beyond! A is for Amplifier B is for Battery C is for Carnot Engine From amplifier to zoning, the ABCs of Engineering is a colorfully simple introduction to STEM for babies and toddlers to a new engineering concept for every letter of the alphabet. Written by two experts, each page in this engineering primer features multiple levels of text so the book grows along with your little engineer. If you're looking for the perfect STEAM book for teachers, science toys for babies, or engineer toys for kids, look no further! ABCs of Engineering offers fun early learning for your little scientist! [How to Be Good at Science, Technology and Engineering Grade 2-5](#) Routledge PLEASE NOTE - this is a replica of the print book and you will need paper and a pencil to complete the exercises. STEM subjects are where the future's at. Now you can be a science superstar with this colorful practice ebook. Are you a budding Einstein? Or do you need a little more help to avoid falling behind in science class? This workbook will help cement everything you need to know about "STE" subjects

through practice questions and practical exercises. Easy-to-follow instructions allow you to try out what you've studied, helping you understand what you've learned in school or giving extra study practice before that important test. Aimed at children aged 7-14 (Grades 2 and up), the ebook covers all the key areas of the school curriculum, including how science works, life, matter, energy, forces, and Earth and space. And there are answers at the back to check that you're on the right path. This workbook accompanies the How to Be Good at Science, Technology, and Engineering coursebook, but can also be used on its own.

The Heart of Science Racehorse for Young Readers It ’ s hands-on science with a capital “ E ” —for engineering. Beginning with the toppling of the Colossus of Rhodes, one of the seven wonders of the ancient world, to the destructive, laserlike sunbeams bouncing off London ’ s infamous “ Fryscraper ” in 2013, here is an illustrated tour of the greatest engineering disasters in history, from the bestselling author of The Book of Totally Irresponsible Science. Each engineering disaster includes a simple, exciting experiment or two using everyday household items to explain the underlying science and put learning into action. Understand the Titanic ’ s demise by sinking an ice-cube-tray ocean liner in the

bathtub. Stomp on a tube of toothpaste to demonstrate what happens to non-Newtonian fluids under pressure—and how a ruptured tank sent a tsunami of molasses through the streets of Boston in 1919. From why the Leaning Tower of Pisa leans to the fatal design flaw in the Sherman tank, here's a book of science at its most riveting. *How to Be Good at Science, Technology, and Engineering* Workman Publishing Company

The seventeen equations that form the basis for life as we know it Most people are familiar with history's great equations: Newton's Law of Gravity, for instance, or Einstein's theory of relativity. But the way these mathematical breakthroughs have contributed to human progress is seldom appreciated. In *In Pursuit of the Unknown*, celebrated mathematician Ian Stewart untangles the roots of our most important mathematical statements to show that equations have long been a driving force behind nearly every aspect of our lives. Using seventeen of our most crucial equations--including the Wave Equation that allowed engineers to measure a building's response to earthquakes, saving countless lives, and the Black-Scholes model, used by bankers to track the price of financial derivatives over time--Stewart illustrates that many of the advances we

now take for granted were made possible by mathematical discoveries. An approachable, lively, and informative guide to the mathematical building blocks of modern life, *In Pursuit of the Unknown* is a penetrating exploration of how we have also used equations to make sense of, and in turn influence, our world.

Cosmos Harmony

Engineering and science research can be difficult for beginners because scientific research is fraught with constraints and disciplines. *Research and Technical Writing for Science and Engineering* breaks down the entire process of conducting engineering and scientific research. This book covers those fascinating guidelines and topics on conducting research, as well as how to better interact with your advisor. Key Features: advice on conducting a literature review, conducting experiments, and writing a good paper summarizing your findings. provides a tutorial on how to increase the impact of research and how to manage research resources. By reflecting on the cases discussed in this book, readers will be able to identify specific situations or dilemmas in their own lives, as the authors provide comprehensive suggestions based on their own experiences.

HarperCollins

New York Times Bestseller For those who could read between the lines, the censored news out of China was terrifying. But the president insisted there was nothing to worry about. Fortunately, we are still a nation of skeptics. Fortunately, there are those among us who study pandemics and are willing to look unflinchingly at worst-case scenarios. Michael Lewis's taut and brilliant nonfiction thriller pits a band of medical visionaries against the wall of ignorance that was the official response of the Trump administration to the outbreak of COVID-19. The characters you will meet in these pages are as fascinating as they are unexpected. A thirteen-year-old girl's science project on transmission of an airborne pathogen develops into a very grown-up model of disease control. A local public-health officer uses her worm's-eye view to see what the CDC misses, and reveals great truths about American society. A secret team of dissenting doctors, nicknamed the Wolverines, has everything necessary to fight the pandemic: brilliant backgrounds, world-class labs, prior experience with the pandemic scares of bird flu and swine flu...everything, that is, except official permission to implement their work. Michael Lewis is not shy about calling these people heroes for their refusal to follow directives that

they know to be based on misinformation and bad science. Even the internet, as crucial as it is to their exchange of ideas, poses a risk to them. They never know for sure who else might be listening in.

Little Leonardo's Fascinating World of Science
Motorbooks International
Tools to make hard problems easier to solve. In this book, Sanjoy Mahajan shows us that the way to master complexity is through insight rather than precision. Precision can overwhelm us with information, whereas insight connects seemingly disparate pieces of information into a simple picture. Unlike computers, humans depend on insight. Based on the author's fifteen years of teaching at MIT, Cambridge University, and Olin College, *The Art of Insight in Science and Engineering* shows us how to build insight and find understanding, giving readers tools to help them solve any problem in science and engineering. To master complexity, we can organize it or discard it. *The Art of Insight in Science and Engineering* first teaches the tools for organizing complexity, then distinguishes the two paths for discarding complexity: with and without loss of information. Questions

and problems throughout the text help readers master and apply these groups of tools. Armed with this three-part toolchest, and without complicated mathematics, readers can estimate the flight range of birds and planes and the strength of chemical bonds, understand the physics of pianos and xylophones, and explain why skies are blue and sunsets are red. *The Art of Insight in Science and Engineering* will appear in print and online under a Creative Commons Noncommercial Share Alike license.

The Art of Insight in Science and Engineering Springer Science & Business Media
An introductory textbook offering a low barrier entry to data science; the hands-on approach will appeal to students from a range of disciplines.
Baby Steps: Intro to Computer Engineering University of Toronto Press
Build, monitor, and manage real-time data pipelines to create data engineering infrastructure efficiently using open-source Apache projects
Key Features
Become well-versed in data architectures, data preparation, and data optimization skills with the help of practical examples
Design data models and learn how to extract, transform, and load (ETL) data using Python
Schedule, automate, and monitor complex data pipelines in production
Book Description Data

engineering provides the foundation for data science and analytics, and forms an important part of all businesses. This book will help you to explore various tools and methods that are used for understanding the data engineering process using Python. The book will show you how to tackle challenges commonly faced in different aspects of data engineering. You ' ll start with an introduction to the basics of data engineering, along with the technologies and frameworks required to build data pipelines to work with large datasets. You ' ll learn how to transform and clean data and perform analytics to get the most out of your data. As you advance, you'll discover how to work with big data of varying complexity and production databases, and build data pipelines. Using real-world examples, you ' ll build architectures on which you ' ll learn how to deploy data pipelines. By the end of this Python book, you ' ll have gained a clear understanding of data modeling techniques, and will be able to confidently build data engineering pipelines for tracking data, running quality checks, and making necessary changes in production. What you will learn
Understand how data engineering supports data science workflows
Discover how to extract data from files and databases and then clean, transform, and enrich it
Configure processors for handling different file formats as well as both relational and NoSQL databases
Find out how to implement a data pipeline and dashboard to visualize results
Use staging and validation to check data before landing in the warehouse
Build real-time pipelines

with staging areas that perform validation and handle failures. Get to grips with deploying pipelines in the production environment. Who this book is for: This book is for data analysts, ETL developers, and anyone looking to get started with or transition to the field of data engineering or refresh their knowledge of data engineering using Python. This book will also be useful for students planning to build a career in data engineering or IT professionals preparing for a transition. No previous knowledge of data engineering is required.

Engineer to Win CRC Press
A practical introduction to the engineering science and mathematics required for engineering study and practice.

Science and Mathematics for Engineering is an introductory textbook that assumes no prior background in engineering. This new edition covers the fundamental scientific knowledge that all trainee engineers must acquire in order to pass their examinations and has been brought fully in line with the compulsory science and mathematics units in the new engineering course specifications. A new chapter covers present and future ways of generating electricity, an important topic. John Bird focuses upon engineering examples, enabling students to develop a sound understanding of engineering systems in terms of the basic laws and principles. This book includes over 580 worked examples, 1300 further problems, 425 multiple choice

questions (with answers), and contains sections covering the mathematics that students will require within their engineering studies, mechanical applications, electrical applications and engineering systems. This book is supported by a companion website of materials that can be found at www.routledge/cw/bird. This resource includes fully worked solutions of all the further problems for students to access, and the full solutions and marking schemes for the revision tests found within the book for instructor use. In addition, all 447 illustrations will be available for downloading by lecturers.

Science for Engineering W. W. Norton & Company
Ceramic Materials: Science and Engineering is an up-to-date treatment of ceramic science, engineering, and applications in a single, comprehensive text. Building on a foundation of crystal structures, phase equilibria, defects, and the mechanical properties of ceramic materials, students are shown how these materials are processed for a wide diversity of applications in today's society. Concepts such as how and why ions move, how ceramics interact with light and magnetic fields, and how they respond to temperature changes are discussed in the context of their applications. References to the art and history of ceramics are included throughout the text, and a chapter is devoted to

ceramics as gemstones. This course-tested text now includes expanded chapters on the role of ceramics in industry and their impact on the environment as well as a chapter devoted to applications of ceramic materials in clean energy technologies. Also new are expanded sets of text-specific homework problems and other resources for instructors. The revised and updated Second Edition is further enhanced with color illustrations throughout the text.

The New Science of Strong Materials The Way Things Work Now
Science for Engineering offers an introductory textbook for students of engineering science and assumes no prior background in engineering. John Bird focuses upon examples rather than theory, enabling students to develop a sound understanding of engineering systems in terms of the basic laws and principles. This book includes over 580 worked examples, 1300 further problems, 425 multiple choice questions (with answers), and contains sections covering the mathematics that students will require within their engineering studies, mechanical applications, electrical applications and engineering systems. This new edition of **Science for Engineering** covers the

fundamental scientific knowledge that all trainee engineers must acquire in order to pass their exams. It has also been brought fully in line with the compulsory science and mathematics units in the new engineering course specifications. Supported by free lecturer materials that can be found at www.routledge/cw/bird This resource includes full worked solutions of all 1300 of the further problems for lecturers/instructors use, and the full solutions and marking scheme for the fifteen revision tests. In addition, all illustrations will be available for downloading.