

Contact By Carl Sagan Ceyway

From the reviews: "... The notes and problems at the end of each chapter are very helpful. [...] In the final analysis, the book is definitely worth owning. [...] It is an extremely well written – but unusual – book that I highly recommend for all physicists."

The Physics Teacher

Gay romantic contemporary

In this insightful and incisive essay, Eugene Ferguson demonstrates that good engineering is as much a matter of intuition and nonverbal thinking as of equations and computation. He argues that a system of engineering education that ignores nonverbal thinking will produce engineers who are dangerously ignorant of the many ways in which the real world differs from the mathematical models constructed in academic minds.

Concrete: We use it for our buildings, bridges, dams, and roads. We walk on it, drive on it, and many of us live and work within its walls. But very few of us know what it is. We take for granted this ubiquitous substance, which both literally and figuratively comprises much of modern civilization's constructed environment; yet the story of its creation and development features a cast of fascinating characters and remarkable historical episodes. This book delves into this history, opening readers' eyes at every turn. In a lively narrative peppered with intriguing details, author Robert Corland describes how some of the most famous personalities of history became involved in the development and use of concrete—including King Herod the Great of Judea, the Roman emperor Hadrian, Thomas Edison (who once owned the largest concrete cement plant in the world), and architect Frank Lloyd Wright. Courland points to recent archaeological evidence suggesting that the discovery of concrete directly led to the Neolithic Revolution and the rise of the earliest civilizations. Much later, the Romans reached extraordinarily high standards for concrete production, showcasing their achievement in iconic buildings like the Coliseum and the Pantheon. Amazingly, with the fall of the Roman Empire, the secrets of concrete manufacturing were lost for over a millennium. The author explains that when concrete was rediscovered in the late eighteenth century it was initially viewed as an interesting novelty or, at best, a specialized building material suitable only for a narrow range of applications. It was only toward the end of the nineteenth century that the use of concrete exploded. During this rapid expansion, industry lobbyists tried to disguise the fact that modern concrete had certain defects and critical shortcomings. It is now recognized that modern concrete, unlike its Roman predecessor, gradually disintegrates with age. Compounding this problem is another distressing fact: the manufacture of concrete cement is a major contributor to global warming. Concrete Planet is filled with incredible stories, fascinating characters, surprising facts, and an array of intriguing insights into the building material that forms the basis of the infrastructure on which we depend. What is the relationship of gender to the micropolitics of school reform? This book explores this timely research question, revealing the everyday struggles that happen between different factions of teachers with different definitions of what school means for students. The focus of this struggle, however, may not be on education, but rather on such underlying issues as gender. Using case studies, the author shows how gender politics can be used by teachers to delay reform.

Unique and accessible overview of modern chemistry, including contributions from several Nobel Prize winners.

Ptolemy's *Almagest* is one of the most influential scientific works in history. A masterpiece of technical exposition, it was the basic textbook of astronomy for more than a thousand years, and still is the main source for our knowledge of ancient astronomy. This translation, based on the standard Greek text of Heiberg, makes the work accessible to English readers in an intelligible and reliable form. It contains numerous corrections derived from medieval Arabic translations and extensive footnotes that take account of the great progress in understanding the work made in this century, due to the discovery of Babylonian records and other researches. It is designed to stand by itself as an interpretation of the original, but it will also be useful as an aid to reading the Greek text.

Have you ever questioned God's righteousness and judgment? If you have ever wondered why something bad happened to someone good, then the answer is yes, and that probably means the book of Job has often left you puzzled. Ezekiel makes reference to a righteous man named Job, and scholars have often assumed this Job and the protagonist of the book of Job were one in the same. But once he's subjected to dreadful trials and tribulations, does Job truly behave in a manner that would please God? Has the intended message of Job been distorted? *God Always Makes Sense* will challenge your belief in Job's character and renew your confidence in God's righteousness. Join Naomi Westbrook Martinez in this illuminating study of the book of Job to discover new and fresh lessons about how we should respond to life's trials. *ABC's, First Words, Numbers and Shapes, Colors and Opposites* including a special note to parents. Children will enjoy hours of learning fun in each 32-page bi-lingual book. All four books are designed specifically to teach and reinforce basic concepts for preschool through early elementary school children.

An activity book from the 1950s provides instructions for experiments with small animals, plants, the air, electricity, and chemistry, as well as crafts involving paper, modelling, and painting, that use simple, readily-available materials.

This manual is intended for use by all Army crewmembers in meeting requirements set forth in Army Regulation 95-1, Training Circular 1-210, and other appropriate aircrew training manuals. Lessons learned from previous military conflicts and recent contingency operations have caused changes in Army aviation doctrine. With the development of more sophisticated aircraft and weapons systems, Army crewmembers must be capable of operating these systems around the clock, in austere environments, and under adverse conditions. The hazards of stress and fatigue in combat operations and concept of operations will eventually take a toll in aircrew performance and could jeopardize mission accomplishment unless crewmembers are trained to recognize and understand these hazards. Proper training prepares crewmembers and prevents stress and fatigue from reducing mission effectiveness, thereby increasing their chances of survival. Training Circular 3-04.93 provides crewmembers with an understanding of the physiological responses that can occur in the aviation environment. It also describes the effects of the flight environment on individual mission accomplishment. In addition, this publication outlines essential aeromedical training requirements (in Chapter 1) that assist commanders and flight surgeons in conducting aeromedical education for Army crewmembers. Subject areas addressed are by no means all inclusive but are presented to assist crewmembers in increasing performance and efficiency. This publication applies to the Active Army, the Army National Guard/Army National Guard of the United States, and the United States Army Reserve unless otherwise stated.

This is a clear, comprehensive, full-color introduction and reference for students and professionals who are creating engineering drawings and graphics with CAD software or by hand. It provides excellent technical detail and motivating real-world examples, illuminating theory with a colorful, highly-visual format complemented with concise text. Designed for busy,

visually-oriented learners, this guide expands on well-tested material, fully updated for the latest ASME standards, materials, industries and production processes. Its up-to-date examples range from mechanical, plastic, and sheet metal drawings to modern techniques for civil engineering, architecture, and rapid prototyping. Throughout, clear, easy, step-by-step descriptions teach essential sketching and visualization techniques, including the use of 3D and 2D CAD. All color visuals are tightly integrated with text to promote rapid mastery. Colorful models and animations on a companion website bring the material to life, and hands-on projects and tear-out worksheets make this guide ideal both for learning and for ongoing reference.

Designed to equip students with the skills for effective business communication, *Communicating for Results* offers practical, classroom-tested instruction not just in grammar but in the rhetorical techniques and persuasive strategies that students need to become effective writers and speakers. Supplemented with abundant group and individual activities to reinforce key principles and help students hone their skills, this invaluable text will teach students to communicate with confidence.

Taher Dajani remembers playing soccer with his neighborhood friends in his idyllic city of Jaffa, Palestine. But on April 24, 1948, when Taher was fourteen, his carefree lifestyle came to an abrupt end. His family, with little money and few possessions, escaped the city by sea in a crowded fishing trawler as Zionist militia encircled Jaffa. Taher's father believed the family was in danger, so overnight they became refugees. The family took refuge in Syria and later in Libya, which enabled them to rebuild their lives. They experienced grief at leaving a place they loved and felt a great sense of loss and displacement, but with perseverance the Dajanis began anew. *From Palestine to America* describes the family's experiences and their determination. Taher Dajani writes this memoir about his new life after leaving his beloved Jaffa—from his days as a college student in Chicago to his work with the central bank in Libya—and his position with the International Monetary Fund in Washington DC. Even though it has been sixty years since the Dajani family were forced to flee Palestine, they remember their heritage and roots, and Jaffa, Palestine, will forever be in their hearts.

Stephen Pople, one of today's most respected science authors, has created a totally new physics book to prepare students for examinations. *Complete Physics* covers all syllabuses due to a unique combination of Core Pages and Further Topics. Each chapter contains core material valid for all syllabuses. Further Topics at the end can be selected to provide the right mix of pages for the syllabus you are teaching. Key Points:

- Totally new book constructed from an analysis of all GCSE Physics syllabuses including IGCSE, CXC, and O'Level
- Sets the traditional principles of physics in a modern and global perspective and uses illustrations with a worldwide context
- Extra topics to give a truly rounded curriculum
- Double-page spread format
- Ideal for those students intending to take physics to a more advanced level

Fatigue Failures Of Blades Is One Of The Most Vexing Problems Of Turbomachine Manufacturers, Ever Since The Steam Turbine Became The Main Stay For Power Generating Equipment And Gas Turbines Are Increasingly Used In The Air Transport. The Problem Is Very Complex, Involving The Excitation Due To Aerodynamic Stage Interaction; Damping Due To Material Deformation, Friction At Slip Surfaces And Aerodynamic Damping; Vibration Of An Asymmetric Aerofoil Tapered Along Its Length And Mounted On A Rotating Disc At A Stagger Angle. The Problem Is Also Governed By Heat Transfer Analysis And Thermal Stresses. His Book Deals With A Basic

Understanding Of Free Vibratory Behaviour Of Turbine Blades- Free Standing, Packetted, And Bladed-Discs. The Analysis Is Based On Continuous And Discrete Models Using Energy Principles And Finite Element Techniques. A Clear Understanding Of The Interference Phenomenon In A Thin Cambered Airfoil Stage In Subsonic Flow Is Presented To Determine The Nonsteady Excitation Forces Acting On The Blades. A Comprehensive Treatment On The Blade Damping Phenomenon That Occurs In Turbines Is Given. The Nonlinear Damping Models Account For Material Damping And Friction Damping As A Function Of Rotational Speed For Each Mode. Resonant Response Calculation Procedures For The Steadily Running As Well As Accelerating Blades Are Given. Cumulative Damage Calculations Are Then Outlined For Fatigue Life Estimation Of Turbomachine Blades. The Book Also Deals With Heat Transfer Analysis And Thermal Stress Calculations Which Help In A Comprehensive Understanding Of The Blade Problems.

In this elegantly designed and illustrated book, Ray Bradbury presents all of his dinosaur tales in one volume. Included in this collection are wonderful tales such as; BESIDES A DINOSAUR, WHATTA YA WANNA BE WHEN YOU GROW UP?, a lengthy tale of Bradbury's Green Town, in which a lonely boy harbours a longing to become...a Tyrannosaurus Rex! A SOUND OF THUNDER the classic time-travel story of five men who take a trip back in time to hunt a dinosaur and wind up changing the past and THE FOG HORN, the atmospheric tale of a prehistoric creature from the deep and its strange rendezvous with a lighthouse. DINOSAUR TALES also includes a new collaboration between the Bradbury and Gahan Wilson.

This book introduces students to the basics of computers, software and internet along with how to program computers using the C language. It is intended for an introductory course that gives beginning engineering and science students a firm rooting in the fundamental principles of computers and information technology, and also provides invaluable insights into key concepts of computing through development of skills in programming and problem solving using C language. To this end, the book is eminently suitable for the first-year engineering students of all branches and MCA students, as per the prescribed syllabus of several universities. C is a difficult language to learn if it is not methodically introduced. The book explains C and its basic programming techniques in a way suitable for beginning students. It begins by giving students a solid foundation in algorithms to help them grasp the overall concepts of programming a computer as a problem-solving tool. Simple aspects of C are introduced first to enable students to quickly start writing programs. More difficult concepts in the latter parts of the book, such as pointers and their use, have been presented in an accessible manner making the learning of C an exciting and interesting experience. The methodology used is to illustrate each new concept with a program and emphasize a good style in programming to allow students to gain sufficient skills in problem solving. KEY FEATURES Self-contained introduction to both computers and programming for beginners All important features of C illustrated with over 100 examples Good style in programming emphasized Laboratory exercises on applications of MS Office, namely, Word processing, Spreadsheet, PowerPoint are included.

Intended for machinery, mechanism, and device designers; engineers, technicians; and inventors and students, this fourth edition includes a glossary of machine design and kinematics terms; material on robotics; and information on

nanotechnology and mechanisms applications.

This book starts with the invention of the wheel nearly 5000 years ago, and via Archimedes, Aristotle and Hero describes the first practical applications such as water wheels and grinding wheels, pushing on to more rigorous scientific research by inquiring minds such as Leonardo da Vinci and Copernicus in later ages. Newton and Leibniz followed, and beam structures received maximum attention three centuries ago. As focus shifts and related disciplines such as mathematics and physics also develop, slowly turbomachines and rotor and blade dynamics as we know the subject now take shape. While the book traces the events leading to Laval and Parsons Turbines, the emphasis is on rotor and blade dynamics aspects that pushed these turbines to their limits in the last century. The tabular and graphical methods developed in the pre-computer era have taken different form in the last fifty years through finite element methods. The methods evolved in the last century are discussed in detail to help modern day designers and researchers. This book will be useful to young researchers and engineers in industry and educational institutions engaged in rotor and blade dynamics work in understanding the past and the present developments and what is expected in future. Faculty and industry engineers can benefit from this broad perspective history in formulating their developmental plans.

Basic theories plates, variational principles and the use of delta operators that facilitate the derivation of differential equations and boundary conditions are explained in this book.

An aid to solving crosswords. It contains over 100,000 potential solutions, including plurals, comparative and superlative adjectives, and inflections of verbs. The list extends to first names, place names and technical terms, euphemisms and compound expressions, as well as abbreviations.

The third edition of the text is in full colour for the first time, with comprehensive and highly referenced coverage of communication theory continuing to be balanced with extensive practical skill activities. Both text and its associated digital resources are written in a user-friendly, accessible style and are enhanced by informative illustrations.

This book examines the use of military force as a coercive tool by the United States, using lessons drawn from the post-Cold War era (1991–2018). The volume reveals that despite its status as sole superpower during the post-Cold War period, US efforts to coerce other states failed as often as they succeeded. In the coming decades, the United States will face states that are more capable and creative, willing to challenge its interests and able to take advantage of missteps and vulnerabilities. By using lessons derived from in-depth case studies and statistical analysis of an original dataset of more than 100 coercive incidents in the post-Cold War era, this book generates insight into how the US military can be used to achieve policy goals. Specifically, it provides guidance about the ways in which, and the conditions under which, the US armed forces can work in concert with economic and diplomatic elements of US power to create effective

coercive strategies. This book will be of interest to students of US national security, US foreign policy, strategic studies and International Relations in general.

African nations have an underdeveloped industrial and economic base such as their water supply, electrical systems, roads, railways, etc. Massive funding is required to build each of these basic services to the levels of developed nations – funding they don't have. Many African countries rely on assistance from the government and global companies looking to invest or facilitate projects in the region. And for a variety of reasons, many of these projects fail or are inadequate to fulfil the needs of the nation. In order to facilitate their own economic development, African nations need to cultivate efficient project management practices and policies that will help them achieve their goal of sustainability. This book by a multidisciplinary project management consultant, contributes to the body of knowledge that each African country can attain and sustain economic development by suggesting how to eliminate and correct most causes of failures of projects in construction, water treatment, electricity and renewable energy. It suggests that they should also be able to obtain the sustainable harvesting of the benefits of project deliverables which have been planned for in order to implement the various aspects of their economic development. The suggestions in this book will make a difference in project delivery and are comprehensive enough to create a root-and-branch change which will affect the people involved in making decision on projects and their delivery. Thus, project management teams and their managers, organization decision makers, companies looking to invest in the region, and politicians who plan the economy have to understand the causes of unhelpful practices and what needs to be done in order to produce productive and effective delivery of long-term sustainable project. The principal goal of this book is to advise public and private companies, and international organizations conducting projects in Africa on how to prepare themselves, their businesses and enterprises to solve the problems that cause failure of projects and abandonment of project deliverables. The book also recommends the necessity for a commercial enterprise or government entity to prepare and develop its vision, mission, and strategic objects to constitute the basis of a business plan which should be implemented for successful operations. After first identifying various failed and abandoned projects in Nigeria, Ghana and South Africa, the author provides an analysis of why these projects failed or were abandoned. By using methodologies of Organizational Project Management (OPM), Project Portfolio Management (PPM) and project management techniques, he suggests a framework for project delivery which could be used as a foundational structure and platform that will address the problem and provide solutions for the achievement of successful and sustainable project delivery in Africa.

What is consciousness and how can a brain, a mere collection of neurons, create it? In *Consciousness and the Social Brain*, Princeton neuroscientist Michael Graziano lays out an audacious new theory to account for the deepest mystery of them all. The human brain has evolved a complex circuitry that allows it to be socially intelligent. This social machinery has only just begun to be studied in detail. One function of this circuitry is to attribute awareness to others: to compute that person Y is aware of thing X. In Graziano's theory, the machinery that attributes awareness to others also attributes it to oneself. Damage that machinery and you disrupt your own awareness. Graziano discusses the science, the evidence, the philosophy, and the surprising implications of this new theory.

A thoroughly contemporary approach to teaching essential engineering graphics skills has made *Fundamentals of Graphics Communication* the leading textbook in introductory engineering graphics courses. The sixth edition continues to integrate design concepts and the use of CAD into its outstanding coverage of the basic visualization and sketching techniques that enable students to create and communicate graphic ideas effectively. As in past editions,

the authors have included many examples of how graphics communication pertains to "real-world" engineering design, including current industry practices and breakthroughs. A website provides additional resources such as an image library, animations, and quizzes.

Have you ever thought that computer science should include more dragons and wizards?

Computational Fairy Tales introduces principles of computational thinking, illustrating high-level computer science concepts, the motivation behind them, and their application in a non-computer—fairy tale—domain. It's a quest that will take you from learning the basics of programming in a blacksmith's forge to fighting curses with recursion. Fifteen seers delivered the same prophecy, without so much as a single minstrel to lighten the mood: an unknown darkness threatens the kingdom. Suddenly, Princess Ann finds herself sent forth alone to save the kingdom. Leaving behind her home, family, and pet turtle Fido, Princess Ann must face goblin attacks, magical curses, arrogant scholars, an unpleasant oracle, and rude Boolean waiters. Along the way she must build a war chest of computational knowledge to survive the coming challenge.

God Always Makes Sense An Illuminating Study of the Book of Job Tate Publishing

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