

## James G Advanced Modern Engineering Mathematics

A groundbreaking and comprehensive reference that's been a bestseller since 1970, this new edition provides a broad mathematical survey and covers a full range of topics from the very basic to the advanced. For the first time, a personal tutor CD-ROM is included.

Rita, Dan, Max and Ted are on the move in Trucktown! Kids will have hands-on fun with a movable part on each spread! Swing Wrecker Rosie's wrecking ball, spin Monster Truck Max's wheel, dump gravel from Dump Truck Dan's bed, and move Tow Truck Ted's hook up and down as he saves a good friend!

"This compendium of essential formulae, definitions, tables and general information provides the mathematical information required by students, technicians, scientists and engineers in day-to-day engineering practice. All the essentials of engineering mathematics - from algebra, geometry and trigonometry to logic circuits, differential equations and probability - are covered, with clear and succinct explanations and illustrated with over 300 line drawings and 500 worked examples based in real-world application. The emphasis throughout the book is on providing the practical tools needed to solve mathematical problems quickly and efficiently in engineering contexts." —Publisher.

What is mathematics about? Is there a mathematical universe glimpsed by a mathematical intuition? Or is mathematics an arbitrary game of symbols, with no inherent meaning, that somehow finds application to life on earth?Robert Knapp holds, on the contrary, that mathematics is about the world. His book develops and applies its alternative viewpoint, first, to elementary geometry and the number system and, then, to more advanced topics, such as topology and group representations. Its theme is that mathematics, however abstract, arises from and is shaped by requirements of indirect measurement. Eratosthenes, in 200 BC, demonstrated the power of indirect measurement when he estimated the circumference of the earth by measuring a shadow at noon, in Alexandria, on the day of the summer solstice. Establishing geometric relationships, solving equations, finding approximations, and, generally, discovering quantitative relationships are tools of indirect measurement: They are the core of mathematics, the drivers of its development, and the heart of its power to enhance our lives.

Introduction to Probability Models

Being an Account in Biographical Form of Individuals and Families Distinguished as Representatives of the Social, Professional and Civic Life of New York City

The Church of England and the Age of Benevolence, 1680-1730

Advanced Engineering Mathematics

A Personal Account of the Discovery of the Structure of DNA

The Hip Hop Wars

This comprehensive textbook is designed for first-year graduate students from a variety of engineering and scientific disciplines.

This textbook is intended to provide an introduction to the cross-disciplinary field of wind engineering. It includes end-of-chapter tutorial sections (solutions manual available) and combines both academic and industrial experience.

Accompanying CD-ROM contains ... "a chapter on engineering statistics and probability / by N. Baily, M. Goyal, and C. Watkins."--CD-ROM label.

Software -- Programming Languages.

Engineering Mathematics Pocket Book

Atomic Habits

Applied Numerical Linear Algebra

An Easy & Proven Way to Build Good Habits & Break Bad Ones

What We Talk About When We Talk About Hip Hop--and Why It Matters

The Fourth Discontinuity

**The classic personal account of Watson and Crick's groundbreaking discovery of the structure of DNA, now with an introduction by Sylvia Nasar, author of A Beautiful Mind. By identifying the structure of DNA, the molecule of life, Francis Crick and James Watson revolutionized biochemistry and won themselves a Nobel Prize. At the time, Watson was only twenty-four, a young scientist hungry to make his mark. His uncompromisingly honest account of the heady days of their thrilling sprint against other world-class researchers to solve one of science's greatest mysteries gives a dazzlingly clear picture of a world of brilliant scientists with great gifts, very human ambitions, and bitter rivalries. With humility unspooled by false modesty, Watson relates his and Crick's desperate efforts to beat Linus Pauling to the Holy Grail of life sciences, the identification of the basic building block of life. Never has a scientist been so truthful in capturing in words the flavor of his work.**

**This second edition continues to emphasise learning by doing and the development of students' ability to use mathematics with understanding to solve engineering problems. Extensive treatment of some advanced engineering topics, particularly as tools for computer-based system modelling, analysis and design. \*Follow on text from Modern Engineering Mathematics, 2E - over 20,000 copies sold \*Changing student needs catered for by some easier examples and exercises plus new introductory sections on matrix algebra and vector spaces \*New chapter on Numerical Solution of Ordinary Differential Equations \*Engineering applications covered in specific sections in each chapter \*The increasing importance of digital techniques and statistics is recognised throughout**

**NEW YORK TIMES BESTSELLER The complete, uncensored history of the award-winning The Daily Show with Jon Stewart, as told by its correspondents, writers, and host. For almost seventeen years, The Daily Show with Jon Stewart brilliantly redefined the borders between television comedy, political satire, and opinionated news coverage. It launched the careers of some of today's most significant comedians, highlighted the hypocrisies of the powerful, and garnered 23 Emmys. Now the show's behind-the-scenes gags, controversies, and camaraderie will be chronicled by the players themselves, from legendary host Jon Stewart to the star cast members and writers-including Samantha Bee, Stephen Colbert, John Oliver, and Steve Carell - plus some of The Daily Show's most prominent guests and adversaries: John and Cindy McCain, Glenn Beck, Tucker Carlson, and many more. This oral history takes the reader behind the curtain for all the show's highlights, from its origins as Comedy Central's underdog late-night program to Trevor Noah's succession, rising from a scrappy jester in the 24-hour political news cycle to become part of the beating heart of politics-a trusted source for not only comedy but also commentary, with a reputation for calling bullshit and an ability to effect real change in the world. Through years of incisive election coverage, passionate debates with President Obama and Hillary Clinton, feuds with Bill O'Reilly and Fox, and provocative takes on Wall Street and racism, The Daily Show has been a cultural touchstone. Now, for the first time, the people behind the show's seminal moments come together to share their memories of the last-minute rewrites, improvisations, pranks, romances, blow-ups, and moments of Zen both on and off the set of one of America's most groundbreaking shows. DIV Published on the occasion of Richard C. Levinâ€™s retirement as president of Yale University, this captivating collection of speeches and essays from the past decade reflects both his varied intellectual passions and his deep commitment to university life and leadership. Whether discussing the economic implications of climate change or speaking to an incoming class of Yale freshmen, he argues for the vital importance of scholarship and the critical role that universities play in educating students and promoting the overall well-being of our society. This collection is a sequel to The Work of the University, which contained the principal writings from Levinâ€™s first decade as Yaleâ€™s president, and it enunciates many of the same enduring themes: forging a strong partnership with the city of New Haven, rebuilding Yaleâ€™s physical infrastructure, strengthening science and engineering, and internationalizing the university. But this companion volume also captures the essence of university leadership. In addressing topics as varied as his personal sources of inspiration, the development of Asian universities, and the universityâ€™s role in promoting innovation and economic growth, Levin challenges the reader to be more engaged, more creative, more innovative, and above all, a better global citizen. Throughout, his commitment to and affection for Yale shines through. /div**

Engineering Mathematics

Modern Engineering Mathematics Solutions Manual on the Web

Everything You Wanted to Know about the Science of Raising Children but Were Too Exhausted to Ask

The World Book Encyclopedia

The World of the University

The Pendulum

*Suitable for a first year course in the subject, this book is an introduction to the field of engineering mathematics. The book is accompanied by online bridging chapters - refresher units in core subjects to bring students up to speed with what they'll need to know before taking the engineering mathematics course.*

*The third edition, Peter Dineen has made rigorous engineering mathematics topics accessible to thousands of students by emphasising visuals, numerous examples, and interesting mathematical models. Advanced Engineering Mathematics features a greater number of examples and problems and is fine-tuned throughout to improve the clear flow of ideas. The computer plays a more prominent role than ever in generating computer graphics used to display concepts and problem sets, incorporating the use of leading software packages. Computational assistance, exercises and projects have been included to encourage students to make use of these computational tools. The content is organized into eight parts and covers a wide spectrum of topics including Ordinary Differential Equations, Vectors and Linear Algebra, Systems of Differential Equations and Qualitative Methods, Vector Analysis, Fourier Analysis, Orthogonal Expansions, and Wavelets, Partial Differential Equations, Complex Analysis, and Probability and Statistics. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.*

*An award-winning scientist offers his unorthodox approach to childrearing: "Parentology is brilliant, jaw-droppingly funny, and full of wisdom...bound to change your thinking about parenting and its conventions" (Amy Chua, author of Battle Hymn of the Tiger Mother). If you're like many parents, you might ask family and friends for advice when faced with important choices about how to raise your kids. You might turn to parenting books or simply rely on timeworn religious or cultural traditions. But when Dalton Conley, a dual-doctorate scientist and full-blown nerd, needed childrearing advice, he turned to scientific research to make the big decisions. In Parentology, Conley hilariously reports the results of those experiments, from bribing his kids to do math (since studies show conditional cash transfers improved educational and health outcomes for kids) to teaching them weird names (because evidence shows kids with unique names tend not to react when their peers tease them) to getting a vasectomy (because fewer kids in a family mean smarter kids). Conley encourages parents to draw on the latest data to rear children. If only because that level of engagement with kids will produce solid and happy ones. Ultimately these experiments are very loving, and the outcomes are redemptive—even when Conley's sassy kids show him the limits of his profession. Parentology teaches you everything you need to know about the latest literature on parenting—with lessons that go down easy. You'll be laughing and learning at the same time.*

*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.*

*How Ayn Rand's Theory of Concepts Unlocks the False Alternatives Between Plato's Mathematical Universe and Hilbert's Game of Symbols*

*Wind Energy Explained*

*Prominent Families of New York*

*Seeing Like a State*

*An Introduction to Statistical Learning*

*Machine Habitus*

Discusses the relationship between humans and machines, pondering the implications of humans becoming more mechanical and of computer robots being programmed to think. He describes early Greek and Chinese automatons and discusses ideas of previous centuries and of individuals on this subject.

Giving an applications-focused introduction to the field of Engineering Mathematics, this book presents the key mathematical concepts that engineers will be expected to know. It is also well suited to maths courses within the physical sciences and applied mathematics. It incorporates many exercises throughout the chapters.

"One of the most profound and illuminating studies of this century to have been published in recent decades."—John Gray, New York Times Book Review Hailed as "a magisterial critique of top-down social planning" by the New York Times, this essential work analyzes disasters from Russia to Tanzania to uncover why states so often fail—sometimes catastrophically—in grand efforts to engineer their society or their environment, and uncovers the conditions common to all such planning disasters. "Beautifully written, this book calls into sharp relief the nature of the world we now inhabit."—New Yorker "A tour de force"—Charles Tilly, Columbia University

An encyclopedia designed especially to meet the needs of elementary, junior high, and senior high school students.

Mathematics Is About the World

Democracy, Expertise, and Academic Freedom

A History, a Theory, a Fload

The Co-evolution of Humans and Machines

On the Move!

Science and Medicine in Early China and Greece

A world-wide bestseller renowned for its effective self-instructional pedagogy.

The #1 New York Times bestseller. Over 4 million copies sold! Tiny Changes, Remarkable Results No matter your goals, Atomic Habits offers a proven framework for improving—every day. James Clear, one of the world's leading experts on habit formation, reveals practical strategies that will teach you exactly how to form good habits, break bad ones, and master the tiny behaviors that lead to remarkable results. If you're having trouble changing your habits, the problem isn't you. The problem is your system. Bad habits repeat themselves again and again not because you don't want to change, but because you have the wrong system for change. You do not rise to the level of your goals. You fall to the level of your systems. Here, you'll get a proven system that can take you to new heights. Clear is known for his ability to distill complex topics into simple behaviors that can be easily applied to daily life and work. Here, he draws on the most proven ideas from biology, psychology, and neuroscience to create an easy-to-understand guide for making good habits inevitable and bad habits impossible. Along the way, readers will be inspired and entertained with true stories from Olympic gold medalists, award-winning artists, business leaders, life-saving physicians, and star comedians who have used the science of small habits to master their craft and vault to the top of their field. Learn how to:
• make time for new habits (even when life gets crazy)
• overcome a lack of motivation and willpower
• design your environment to make success easier
• get back on track when you fall off course...and much more. Atomic Habits will reshape the way you think about progress and success, and give you the tools and strategies you need to transform your habits—whether you are a team looking to win a championship, an organization hoping to redefine an industry, or simply an individual who wishes to quit smoking, lose weight, reduce stress, or achieve any other goal. We commonly think of society as made of and by humans, but with the proliferation of machine learning and AI technologies, this is clearly no longer the case. Billions of automated systems tacitly contribute to the social construction of reality by drawing algorithmic distinctions between the visible and the invisible, the relevant and the irrelevant, the likely and the unlikely - on and beyond platforms. Drawing on the work of Pierre Bourdieu, this book develops an original sociology of algorithms as social agents, actively participating in social life. Through a wide range of examples, Massimo Airoldi shows how society shapes algorithmic code, and how this culture in the code guides the practical behaviour of the code in the culture, shaping society in turn. The "machine habitus" is the generative mechanism at work throughout myriads of feedback loops linking humans with artificial social agents, in the context of digital infrastructures and pre-digital social structures. Machine Habitus will be of great interest to students and scholars in sociology, media and cultural studies, science and technology studies and information technology, and to anyone interested in the growing role of algorithms and AI in our social and cultural life.

A leading American legal scholar offers a surprising account of the incompleteness of prevailing theories of freedom of speech. Robert C. Post shows that the familiar understanding of the First Amendment, which stresses the "marketplace of ideas" and which holds that "everyone is entitled to an opinion," is inadequate to create and preserve the expert knowledge that is necessary for a modern democracy to thrive. For a modern society reliably to answer such questions as whether nicotine causes cancer, the free and open exchange of ideas must be complemented by standards of scientific competence and practice that are both hierarchical and judgmental. Post develops a theory of First Amendment rights that seeks to explain both the need for the free formation of public opinion and the need for the distribution and creation of expertise. Along the way he offers a new and useful account of constitutional doctrines of academic freedom. These doctrines depend both upon free expression and the necessity of the kinds of professional judgment that universities exercise when they grant or deny tenure, or that professional journals exercise when they accept or reject submissions.

An Oral History as Told by Jon Stewart, the Correspondents, Staff and Guests

with Applications in R

Deep Learning

Modern Engineering Mathematics

Toward a Sociology of Algorithms

Signal Processing First

*Now in its eighth edition, Higher Engineering Mathematics has helped thousands of students succeed in their exams. Theory is kept to a minimum, with the emphasis firmly placed on problem-solving skills, making this a thoroughly practical introduction to the advanced engineering mathematics that students need to master. The extensive and thorough topic coverage makes this an ideal text for upper-level vocational courses and for undergraduate degree courses. It is also supported by a fully updated companion website with resources for both students and lecturers. It has full solutions to all 2,000 further questions contained in the 277 practice exercises.*

*Argues that hip hop has become a primary way to talk about race in America, examining the links between hip hop, violence, and sexism and whether or not hip hop's portrayal of black culture undermines black advancement.*

*This introductory text explains methods for obtaining approximate solutions to mathematical problems by exploiting the presence of small, dimensionless parameters. For engineering and physical science undergraduates.*

*An introduction to a broad range of topics in deep learning, covering mathematical and conceptual background, deep learning techniques used in industry, and research perspectives. "Written by three experts in the field, Deep Learning is the only comprehensive book on the subject."—Elon Musk, cochair of OpenAI, cofounder and CEO of Tesla and SpaceX Deep learning is a form of machine learning that enables computers to learn from experience and understand the world in terms of a hierarchy of concepts. Because the computer gathers knowledge from experience, there is no need for a human computer operator to formally specify all the knowledge that the computer needs. The hierarchy of concepts allows the computer to learn related concepts by building them out of simpler ones; a graph of these hierarchies would be many layers deep. This book introduces a broad range of topics in deep learning. The text offers mathematical and conceptual background, covering relevant concepts in linear algebra, probability theory and information theory, numerical computation, and machine learning. It describes deep learning techniques used by practitioners in industry, including deep feedforward networks, regularization, optimization algorithms, convolutional networks, sequence modeling, and practical methodology; and it surveys such applications as natural language processing, speech recognition, computer vision, online recommendation systems, bioinformatics, and videogames. Finally, the book offers research perspectives, covering such theoretical topics as linear factor models, autoencoders, representation learning, structured probabilistic models, Monte Carlo methods, the partition function, approximate inference, and deep generative models. Deep Learning can be used by undergraduate or graduate students planning careers in either industry or research, and by software engineers who want to begin using deep learning in their products or platforms. A website offers supplementary material [for both readers and instructors.*

*The Christian Monitor*

*The Laws of Engineering*

*The Way and the Word*

*Advanced Modern Engineering Mathematics*

*Higher Engineering Mathematics*

*The Information*

*The Civilizations of ancient China and Greece built sciences of comparable sophistication—each based on different foundations of concept, method, and organization. In this engrossing book, two world-renowned scholars compare the cosmology, science, and medicine of China and Greece between 400 B.C. and A.D. 200, casting new light not only on the two civilizations but also on the evolving character of science. Sir Geoffrey Lloyd and Nathan Sivin investigate the differences between the thinkers in the two civilizations: what motivated them, how they understood the cosmos and the human body, how they were educated, how they made a living, and whom they argued with and why. The authors' new method integrally compares social, political, and intellectual patterns and connections, demonstrating how all affected and were affected by ideas about cosmology and the physical world. They relate conceptual differences in China and Greece to the diverse ways that intellectuals in the two civilizations earned their living, interacted with fellow inquirers, and were involved with structures of authority. By A.D. 200 the distinctive scientific strengths of both China and Greece showed equal potential for theory and practice. Lloyd and Sivin argue that modern science evolved not out of the Greek tradition alone but from the strengths of China, Greece, India, Islam, and other civilizations, which converged first in the Muslim world and then in Renaissance Europe.*

*For introductory courses (freshman and sophomore courses) in Digital Signal Processing and Signals and Systems. Text book introduces a broad range of topics in simpler layers. This book introduces a broad range of topics in deeper learning. The text offers mathematical and conceptual background, covering relevant concepts in linear algebra, probability theory and information theory, numerical computation, and machine learning. It describes deep learning techniques used by practitioners in industry, including deep feedforward networks, regularization, optimization algorithms, convolutional networks, sequence modeling, and practical methodology; and it surveys such applications as natural language processing, speech recognition, computer vision, online recommendation systems, bioinformatics, and videogames. Finally, the book offers research perspectives, covering such theoretical topics as linear factor models, autoencoders, representation learning, structured probabilistic models, Monte Carlo methods, the partition function, approximate inference, and deep generative models. Deep Learning can be used by undergraduate or graduate students planning careers in either industry or research, and by software engineers who want to begin using deep learning in their products or platforms. A website offers supplementary material [for both readers and instructors.*

*The aim of this book is to motivate students into learning Machine Analysis by reinforcing theory and applications throughout the text. The author uses an enthusiastic "hands-on" approach by including photos of actual mechanisms in place of abstract line illustrations, and directs students towards developing their own software for mechanism analysis using Excel & Matlab. An accompanying website includes a detailed list of tips for learning machine analysis, including tips on working homework problems, note taking, preparing for tests, computer programming and other topics to aid in student success. Study guides for each chapter that focus on teaching the thought process needed to solve problems by presenting practice problems are included, as are computer animations for common mechanisms discussed in the text.*

*Building on the foundations laid in the companion text Modern Engineering Mathematics, this book gives an extensive treatment of some of the advanced areas of mathematics that have applications in various fields of engineering, particularly as tools for computer-based system modelling, analysis and design. The philosophy of learning by doing helps students develop the ability to use mathematics with understanding to solve engineering problems. A wealth of engineering examples and the integration of MATLAB and MAPLE further support students.*

*Theory, Design and Application*

*The Double Helix*

*Parentology*

*Machine Analysis with Computer Applications for Mechanical Engineers*

*A First Look at Perturbation Theory*

*Essential Mathematics for Science and Technology*

**Advanced Modern Engineering Mathematics**Prentice Hall

This is an entry level text for a wide range of courses in computer science, medicine, health sciences, social sciences, business, engineering and science. Using the phenomenally successful approach of the bestselling Engineering Mathematics by the same authors, it takes you through the math step-by-step with a wealth of examples and exercises. It is an appropriate refresher or brush-up for sci-tech and business students whose math skills need further development. Offers a unique module approach that takes users through the mathematics in a step-by-step fashion with a wealth of worked examples and exercises. Contains Quizzes, Learning Outcomes and Can You? Checklists that guide readers through each topic and focus understanding. Ideal as reference or a self-learning manual.

Introduction to Probability Models, Tenth Edition, provides an introduction to elementary probability theory and stochastic processes. There are two approaches to the study of probability theory. One is heuristic and nonrigorous, and attempts to develop in students an intuitive feel for the subject that enables him or her to think probabilistically. The other approach attempts a rigorous development of probability by using the tools of measure theory. The first approach is employed in this text. The book begins by introducing basic concepts of probability theory, such as the random variable, conditional probability, and conditional expectation. This is followed by discussions of stochastic processes, including Markov chains and Poisson processes. The remaining chapters cover queuing, reliability theory, Brownian motion, and simulation. Many examples are worked out throughout the text, along with exercises to be solved by students. This book will be particularly useful to those interested in learning how probability theory can be applied to the study of phenomena in fields such as engineering, computer science, management science, the physical and social sciences, and operations research. Ideally, this text would be used in a one-year course in probability models, or a one-semester course in introductory probability theory or a course in elementary stochastic processes. New to this Edition: 65% new chapter material including coverage of finite capacity queues, insurance risk models and Markov chains Contains compulsory material for new Exam 3 of the Society of Actuaries containing several sections in the new exams Updated data, and a list of commonly used notations and equations, a robust ancillary package, including a ISM, SSM, and test bank Includes SPSS PASW Modeler and SAS JMP software packages which are widely used in the field Hallmark features: Superior writing style Excellent exercises and examples covering the wide breadth of coverage of probability topics Real-world applications in engineering, science, business and economics

From the bestselling author of the acclaimed Chaos and Genius comes a thoughtful and provocative exploration of the big ideas of the modern era: information, communication, and information theory. Acclaimed science writer James Gleick presents an eye-opening vision of how our relationship to information has transformed the very nature of human consciousness. A fascinating intellectual journey through the history of communication and information, from the language of Africa's talking drums to the invention of written alphabets; from the electronic transmission of code to the origins of information theory, into the new information age and the current deluge of news, tweets, images, and blogs. Along the way, Gleick profiles key innovators, including Charles Babbage, Ada Lovelace, Samuel Morse, and Claude Shannon, and reveals how our understanding of information is transforming not only how we look at the world, but how we live. A New York Times Notable Book A Los Angeles Times and Cleveland Plain Dealer Best Book of the Year Winner of the PEN/E. O. Wilson Literary Science Writing Award

**How Certain Schemes to Improve the Human Condition Have Failed**

**A Case Study in Physics**

**Advanced C++ Programming Styles and Idioms**

**A First Amendment Jurisprudence for the Modern State**

**The Daily Show (The Book)**

did the most persuasive book examines the moral and religious revival led by the Church of England before and after the Glorious Revolution, and shows how that revival laid the groundwork for a burgeoning civil society in Britain. After outlining the Church of England's key role in the increase of voluntary, charitable, and religious societies, Brent Sirota examines how these groups drove the modernization of Britain through such activities as settling immigrants throughout t

educating merchants, seamen, and slaves throughout the British empire—all leading to what has been termed the "age of benevolence."/DIV

The pendulum: a case study in physics is a unique book in several ways. Firstly, it is a comprehensive quantitative study of one physical system, the pendulum, from the viewpoint of elementary and more advanced classical physics, modern chaotic dynamics, and quantum mechanics. In addition, coupled pendulums and pendulum analogs of superconducting devices are also discussed. Secondly, this book treats the physics of the pendulum within a historical and cultural context, showing the earth's motion, and timekeeping. While primarily a physics book, the work provides significant added interest through the use of relevant cultural and historical vignettes. This approach offers an alternative to the usual modern physics courses. The text is amply illustrated and augmented by exercises at the end of each chapter.