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mechanical engineering and some important "trees" along the way. Overall, the lively presentation attracts students to engineering, excites them with a view of what to expect in later courses, and provides them with a useful design, problem-solving, and analysis skills. This textbook is ideal for mechanical engineering students preparing to enter the workforce during a time of rapidly accelerating technology, where they will be challenged to join interdisciplinary teams. It explains system dynamics using analogies familiar to the mechanical engineer while introducing new content in an intuitive fashion. The fundamentals provided in this book prepare the mechanical engineer to adapt to continuous technological advances with topics outside traditional mechanical engineering curricula by preparing them to apply basic principles and established approaches to new problems. This book also: Reinforces the connection between the subject matter and engineering reality · Includes an instructor pack with the online publication that describes in-class experiments with minimal preparation requirements · Provides content dedicated to the modeling of modern interdisciplinary technological subjects, including optomechanical systems, high-speed manufacturing equipment, and measurement systems · Incorporates MATLAB® programming examples throughout the text · Incorporates MATLAB® examples that animate the dynamics of systems Covering the whole spectrum of vibration theory and itsapplications in both civil and mechanical engineering, Mechanical and Structural Vibrations provides the most comprehensive treatment of the subject currently available. Based on the author s manyyears of experience in both

academe and industry, it is designed to function equally well as both a day-to-day working resource forpracticing engineers and a superior upper-level undergraduate orgraduate-level text. Features a quick-reference format that, Mechanical and Structural Vibrations gives engineers instant access to the specific theory orapplication they need. Saves valuable time ordinarily spent wadingthrough unrelated or extraneous material. And, while they arethoroughly integrated throughout the text, applications to bothcivil and mechanical engineering are organized into sections that permit the reader to reference only the material germane to his orner field. Students and teachers will appreciate the book's practical, real-world approach to the subject, its emphasis on simplicity and accuracy of analytical techniques, and its straightforward, step-by-step delineation of all numerical methods used incalculating the dynamics and vibrations problems, as well as thenumerous examples with which the author illustrates those methods. They will also appreciate the many chapter-end practice problems(solutions appear in appendices) designed to help them rapidly develop mastery of all concepts and methods covered. Readers will find many versatile new concepts and analyticaltechniques not covered in other texts, including nonlinearanalysis, inelastic response of structural and mechanical components of uniform and variable stiffness, the "dynamic hinge,""dynamically equivalent systems," and other breakthrough tools andtechniques developed by the author and his collaborators. Mechanical and Structural Vibrations is both an excellent text forcourses in structural dynamics, dynamic systems, and engineering vibration and a valuable

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grounding in the following core engineering topics: thermodynamics, fluid mechanics, solid mechanics, dynamics, electricals and electronics, and materials scien Discover today's fascinating, challenging, and constantly changing field of mechanical engineering with Wickert/Lewis' ENHANCED EDITION OF AN INTRODUCTION TO MECHANICAL ENGINEERING, 4th Edition. This engaging book helps you master technical problem-solving skills as you gain a balanced understanding of the latest design, engineering analysis, and advancements in engineering-related technology. The authors use their expertise to present engineering as a visual and graphical activity. Nearly 300 photographs and illustrations give you an exciting glimpse into what you will study in later courses and practice in your career. Meaningful content, interspersed with numerous real-world applications and interesting examples, helps you develop the solid foundation in mechanical engineering that you need for future success. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Shigley's Mechanical Engineering Design is intended for students beginning the study of mechanical engineering design. Students will find that the text directs them into familiarity with the basics of design decisions and the standards of industrial components. It combines the straightforward focus on fundamentals that instructors have come to expect, with a modern emphasis on design and new applications. This edition maintains the welldesigned approach that has made this book the standard in machine design for nearly 50 years. McGraw-Hill's Connect,

is available as an optional, add on item. Connect is the only integrated learning system that empowers students by continuously adapting to deliver precisely what they need, when they need it, how they need it, so that class time is more effective. Connect allows the instructor to assign homework, quizzes and tests easily and automatically grades and records the scores of the student's work. Presenting students with a comprehensive and efficient approach to the modelling, simulation, and analysis of dynamic systems, this textbook addresses mechanical, electrical, thermal and fluid systems, feedback control systems, and their combinations. It features a robust introduction to fundamental mathematical prerequisites, suitable for students from a range of backgrounds; clearly established three-key procedures – fundamental principles, basic elements, and ways of analysis – for students to build on in confidence as they explore new topics; over 300 end-of-chapter problems, with solutions available for instructors, to solidify a hands-on understanding; and clear and uncomplicated examples using MATLAB®/Simulink® and Mathematica®, to introduce students to computational approaches. With a capstone chapter focused on the application of these techniques to real-world engineering problems, this is an ideal resource for a single-semester course in dynamic systems for students in mechanical, aerospace and civil engineering. This practical, user-friendly reference book of common mechanical engineering concepts is geared toward makers who don't have (or want) an engineering degree but need to know the essentials of basic mechanical elements to successfully accomplish their personal projects. The book provides

practical mechanical engineering information (supplemented with the applicable math, science, physics, and engineering theory) without being boring like a typical textbook. Most chapters contain at least one hands-on, fully illustrated, stepby-step project to demonstrate the topic being discussed and requires only common, inexpensive, easily sourced materials and tools. Some projects also provide alternative materials and tools and processes to align with the reader's individual preferences, skills, tools, and materials-at-hand. Linked together via the authors' overarching project -- building a kid-sized tank -- the chapters describe the thinking behind each mechanism and then expands the discussions to similar mechanical concepts in other applications. Written with humor, a bit of irreverence, and entertaining personal insights and first-hand experiences, the book presents complex concepts in an uncomplicated way. Highlights include: Provides mechanical engineering information that includes math, science, physics and engineering theory without being a textbook Contains hands-on projects in each chapter that require common, inexpensive, easily sourced materials and tools All hands-on projects are fully illustrated with step-bystep instructions Some hands-on projects provide alternative materials and tools/processes to align with the reader's individual preferences, skills, tools and materials-at-hand Includes real-world insights from the authors like tips and tricks ("Staying on Track") and fail moments ("Lost Track!") Many chapters contain a section ("Tracking Further") that dives deeper into the chapter subject, for those readers that are interested in more details of the topic Builds on two related Make: projects to link and illustrate all the chapter

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(supplemented with the applicable math, science, physics, and engineering theory) without being boring like a typical textbook. Most chapters contain at least one hands-on, fully illustrated, step-by-step project to demonstrate the topic being discussed and requires only common, inexpensive, easily sourced materials and tools. Some projects also provide alternative materials and tools and processes to align with the reader's individual preferences, skills, tools, and materials-at-hand. Linked together via the authors' overarching project -- building a kid-sized tank -- the chapters describe the thinking behind each mechanism and then expands the discussions to similar mechanical concepts in other applications. Written with humor, a bit of irreverence, and entertaining personal insights and first-hand experiences, the book presents complex concepts in an uncomplicated way. Highlights include: Provides mechanical engineering information that includes math, science, physics and engineering theory without being a textbook Contains hands-on projects in each chapter that require common, inexpensive, easily sourced materials and tools All hands-on projects are fully illustrated with step-by-step instructions Some hands-on projects provide alternative materials and tools/processes to align with the reader's individual preferences, skills, tools and materials-at-hand Includes realworld insights from the authors like tips and tricks ("Staying on Track") and fail moments ("Lost Track!") Many chapters contain a section ("Tracking Further") that dives deeper into the chapter subject, for those readers that are interested in more details of the topic Builds on two related Make: projects to link and illustrate all the chapter topics and bring

individual concepts together into one system Furnishes an accompanying website that offers further information, illustrations, projects, discussion boards, videos, animations, patterns, drawings, etc. Learn to effectively use professional mechanical engineering principles in your projects, without having to graduate from engineering school! This book introduces Mechanistic Data Science (MDS) as a structured methodology for combining data science tools with mathematical scientific principles (i.e., "mechanistic" principles) to solve intractable problems. Traditional data science methodologies require copious quantities of data to show a reliable pattern, but the amount of required data can be greatly reduced by considering the mathematical science principles. MDS is presented here in six easy-to-follow modules: 1) Multimodal data generation and collection, 2) extraction of mechanistic features, 3) knowledge-driven dimension reduction, 4) reduced order surrogate models, 5) deep learning for regression and classification, and 6) system and design. These data science and mechanistic analysis steps are presented in an intuitive manner that emphasizes practical concepts for solving engineering problems as well as real-life problems. This book is written in a spectral style and is ideal as an entry level textbook for engineering and data science undergraduate and graduate students, practicing scientists and engineers, as well as STEM (Science, Technology, Engineering, Mathematics) high school students and teachers. The Mechanical Engineer's Handbook was developed and written specifically to fill a need for mechanical engineers and mechanical engineering students. With over 1000 pages, 550 illustrations, and 26 tables the

Mechanical Engineer's Handbook is comprehensive, compact and durable. The Handbook covers major areas of mechanical engineering with succinct coverage of the definitions, formulas, examples, theory, proofs, and explanations of all principle subject areas. The Handbook is an essential, practical companion for all mechanical engineering students with core coverage of nearly all relevant courses included. Also, anyone preparing for the engineering licensing examinations will find this handbook to be an invaluable aid. Useful analytical techniques provide the student and practicing engineer with powerful tools for mechanical design. This book is designed to be a portable reference with a depth of coverage not found in "pocketbooks" of formulas and definitions and without the verbosity, high price, and excessive size of the huge encyclopedic handbooks. If an engineer needs a quick reference for a wide array of information, yet does not have a full library of textbooks or does not want to spend the extra time and effort necessary to search and carry a six pound handbook, this book is for them. \* Covers all major areas of mechanical engineering with succinct coverage of the definitions, formulae, examples, theory, proofs and explanations of all principle subject areas \* Boasts over 1000 pages, 550 illustrations, and 26 tables \* Is comprehensive, yet affordable, compact, and durable with strong 'flexible' binding \* Possesses a true handbook 'feel' in size and design with a full colour cover, thumb index, cross-references and useful printed endpapers Thermodynamics, An Engineering Approach, eighth edition, covers the basic principles of thermodynamics while presenting a wealth of real-world

engineering examples so students get a feel for how thermodynamics is applied in engineering practice. This text helps students develop an intuitive understanding by emphasizing the physics and physical arguments. Cengel and Boles explore the various facets of thermodynamics through careful explanations of concepts and use of numerous practical examples and figures, having students develop necessary skills to bridge the gap between knowledge and the confidence to properly apply their knowledge. McGraw-Hill is proud to offer Connect with the eighth edition of Cengel/Boles, Thermodynamics, An Engineering Approach. This innovative and powerful new system helps your students learn more efficiently and gives you the ability to assign homework problems simply and easily. Problems are graded automatically, and the results are recorded immediately. Track individual student performance - bt question, assignment, or in realtion to the class overall with detailed grade reports. ConnectPlus provides students with all the advantages of Connect, plus 24/7 access to an eBook. Cengel's Thermodynamics, eighth edition, includes the power of McGraw-Hill's LearnSmart--a proven adaptive learning system that helps students learn faster, study more efficiently, and retain more knowledge through a series of adaptive questions. This innovative study tool pinpoints concepts the student does not understand and maps out a personalized plan for success. This book 'Basic Mechanical Engineering' has been written to provide knowledge and insight into various aspects of Mechanical Engineering. This book is intended as text book to be used by the students in the technical institutions i.e. Engineering Colleges and

Polytechnics. The book covers Syllabi of various Universities on 'Basic Mechanical Engineering', 'Elements of Mechanical Engineering', 'Mechanical Engineering', 'Introduction to Mechanical Engineering' and 'Fundamentals of Mechanical Engineering' for the students of all the disciplines of Engineering. Adequate attention has been paid to emphasize on basic principles involved in the subject matter. The explanation in the text has been supported with line diagrams, along with numerous solved problems. The readers will find the book highly useful as a comprehensive text covering basic principles in simple language and easy to grasp formatting. AN INTRODUCTION TO MECHANICAL ENGINEERING, 4E introduces readers to today's ever-emerging field of mechanical engineering as it instills an appreciation for how engineers design hardware that builds and improves societies around the world. This book is ideal for those completing their first or second year in a college or university's mechanical engineering program. It is also useful for those studying a closely related field. The authors effectively balance timely treatments of technical problem-solving skills, design, engineering analysis, and modern technology to provide the solid mechanical engineering foundation readers need for future success. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Part of ESource—Prentice Hall's Engineering Source, this book provides a flexible introduction to Mechanical Engineering. Featuring over 25 modules and growing, the ESource series provides a comprehensive resource of engineering topics. Mechanical

Engineering as a Profession; Dimensions, Units, and Error; Statics, Dynamics, and Mechanical Engineering; Mechanical Engineering and Solid Mechanics; Materials and Mechanical Engineering; Fluids and Mechanical Engineering; Thermal Science and Mechanical Engineering; Mechanical Engineering and Design. For any Engineer or Computer Scientist interested in a brief introduction to the subject. This updated and expanded edition presents a highly accurate specification for part surface machining. Precise specification reduces the cost of this widely used industrial operation as accurately specified and machined part surfaces do not need to undergo costly final finishing. Dr. Radzevich describes techniques in this volume based primarily on classical differential geometry of surfaces. He then transitions from differential geometry of surfaces to engineering geometry of surfaces, and examines how part surfaces are either machined themselves, or are produced by tools with surfaces that are precisely machined. The book goes on to explain specific methods, such as derivation of planar characteristic curves based on Plücker conoid constructed at a point of the part surface, and that analytical description of part surface is vital for surfaces machined using CNC technology, and especially so for multi-axes NC machines. Providing readers with a powerful tool for analytical description of part surfaces machined on conventional machine tools and numerically controlled machines, this book maximizes understanding on optimal treatment of part surfaces to meet the requirements of today's high tech industry. "Mechanical Engineering Principles offers a student-friendly introduction to core engineering

topics that does not assume any previous background in engineering studies, and as such can act as a core textbook for several engineering courses. Bird and Ross introduce mechanical principles and technology through examples and applications rather than theory. This approach enables students to develop a sound understanding of the engineering principles and their use in practice. Theoretical concepts are supported by over 600 problems and 400 worked answers. The new edition will match up to the latest BTEC National specifications and can also be used on mechanical engineering courses from Levels 2 to 4"-- This book is about the role of some engineering principles in our everyday lives. Engineers study these principles and use them in the design and analysis of the products and systems with which they work. The same principles play basic and influential roles in our everyday lives as well. Whether the concept of entropy, the moments of inertia, the natural frequency, the Coriolis acceleration, or the electromotive force, the roles and effects of these phenomena are the same in a system designed by an engineer or created by nature. This shows that learning about these engineering concepts helps us to understand why certain things happen or behave the way they do, and that these concepts are not strange phenomena invented by individuals only for their own use, rather, they are part of our everyday physical and natural world, but are used to our benefit by the engineers and scientists. Learning about these principles might also help attract more and more qualified and interested high school and college students to the engineering fields. Each chapter of this book explains one of these principles through examples, discussions, and at times,

simple equations. Mechanical Engineering Design, Third Edition strikes a balance between theory and application, and prepares students for more advanced study or professional practice. Updated throughout, it outlines basic concepts and provides the necessary theory to gain insight into mechanics with numerical methods in design. Divided into three sections, the text presents background topics, addresses failure prevention across a variety of machine elements, and covers the design of machine components as well as entire machines. Optional sections treating special and advanced topics are also included. Features: Places a strong emphasis on the fundamentals of mechanics of materials as they relate to the study of mechanical design Furnishes material selection charts and tables as an aid for specific uses Includes numerous practical case studies of various components and machines Covers applied finite element analysis in design, offering this useful tool for computer-oriented examples Addresses the ABET design criteria in a systematic manner Presents independent chapters that can be studied in any order Introduces optional MATLAB® solutions tied to the book and student learning resources Mechanical Engineering Design, Third Edition allows students to gain a grasp of the fundamentals of machine design and the ability to apply these fundamentals to various new engineering problems. This book presents selected peer-reviewed papers presented at the International Conference on Innovative Technologies in Mechanical Engineering (ITME) 2019. The book discusses a wide range of topics in mechanical engineering such as mechanical systems, materials engineering, micromachining, renewable energy, systems engineering, thermal

engineering, additive manufacturing, automotive technologies, rapid prototyping, computer aided design and manufacturing. This book, in addition to assisting students and researchers working in various areas of mechanical engineering, can also be useful to researchers and professionals working in various allied and interdisciplinary fields. Is mechanical engineering the career for you? Learn about the glory that awaits you in the mechanical engineering profession... if you can get past all the obstacles. In Circling the Drain, Professor Klein explains the pros and cons of this notable profession with accuracy, cynicism, and humor. You'll enjoy his honest (if sometimes harsh) tongue-in-cheek observations. Find answers to these pressing questions: -Why does everyone think they can do mechanical engineering when they don't have a clue? - How did the engineering terms jerk, slug, nut, and screw become household words? - Why doesn't anyone listen to mechanical engineers? - Where are the mechanical engineering superstars? - Do we really even need mechanical engineers anymore? The lessons learned by Dr. Klein throughout his career apply not only to mechanical engineering, but to life: be creative, embrace the joy in living, and never forget to laugh. Circling the Drain was written for current, former, and wanna-be engineers. Do you have what it takes to be a mechanical engineer? Shigley's Mechanical Engineering Design is intended for students beginning the study of mechanical engineering design. Students will find that the text inherently directs them into familiarity with both the basics of design decisions and the standards of industrial components. It combines the straightforward focus on

fundamentals that instructors have come to expect, with a modern emphasis on design and new applications. The tenth edition maintains the well-designed approach that has made this book the standard in machine design for nearly 50 years. McGraw-Hill is also proud to offer Connect with the tenth edition of Shigley's Mechanical Engineering Design. This innovative and powerful new system helps your students learn more efficiently and gives you the ability to assign homework problems simply and easily. Problems are graded automatically, and the results are recorded immediately. Track individual student performance - by question, assignment, or in relation to the class overall with detailed grade reports. ConnectPlus provides students with all the advantages of Connect, plus 24/7 access to an eBook. Shigley's Mechanical Engineering Design. includes the power of McGraw-Hill's LearnSmart--a proven adaptive learning system that helps students learn faster, study more efficiently, and retain more knowledge through a series of adaptive questions. This innovative study tool pinpoints concepts the student does not understand and maps out a personalized plan for success. This volume provides valuable insight into diverse topics related to mechanical engineering and presents state-of-the-art work on sustainable development being carried out throughout the world by budding researchers and scientists. Divided into three sections, the volume covers machine design, materials and manufacturing, and thermal engineering. It presents innovative research work on machine design that is of relevance to such varied fields as the automotive industry, agriculture, and human anatomy. The second section

addresses materials characterization, an important tool in assessing proper materials for application-oriented jobs, and emerging unconventional machining processes that are important in design engineering for new products and tools. The section on thermal engineering broadly covers the use of viable alternate fuels, such as HHO, biodiesel, etc., with the objective of reducing the burden on petroleum reserves and the environment. Recycling and Reusing of Engineering Materials: Recycling for Sustainable Developments covers the latest research and developments in recycling and reusing processes, including new fundamental concepts, techniques, methods and process flows. The book provides applications of these novel technologies to recycling processes and analyzes new and modern ways of recycling techniques. It provides a comprehensive literature review on fundamental aspects of recycling processes, recycling goals, characterization of waste streams, legislative policies and evaluation, electronic recycling, aircraft recycling, recycling processes, energy savings and issues, environmental issues, societal issues, recycled materials, market development for recycling, processing facilities, and awareness and importance of recycling safety. The book is an indispensable reference for researchers in academia and industry. Scientists can use this book for literature reviews and experimental details, and the industry can use its comprehensive detail for literature reviews and to upgrade their processes and systems. Provides the latest information on recycling and reusing processes Includes the results of laboratory experiments from the recycling of electronic waste, recycling of composites, and of aircraft and plastics Covers radioactive

waste treatment and biological waste disposal Written by a team of authors with teaching and industrial experience A concise book for candidates appearing for Mechanical Engineering Exams. Focusing on the conceptual understanding of mechanics, this exciting new text addresses developments in the methods of analyzing mechanics problems. It fully incorporates the highly sophisticated computational software packages currently available to students. The text provides transition material to higher level courses, as well as a wealth of problems to foster understanding. All sample problems and the use of computational software (Mathcad, MATLAB, Mathematica and Maple) are presented in four separate manuals (one for each software program). Each manual explains how to use the software package to solve the example problems in the book. Noncircular Gears: Design and Generation represents the extension of the modern theory of gearing applied to the design and manufacture of the main types of noncircular gears: conventional and modified elliptical gears, eccentric gears, oval gears, gears with lobes, and twisted gears. This book is enhanced by updated theoretical description of the methods of generation of noncircular gears by enveloping methods similar to those applied to the generation of circular gears. Noncircular Gears: Design and Generation also offers new developments directed to extend the application of noncircular gears for output speed variation and generation of functions. Numerous numerical examples show the application of the developed theory. This book aims to extend the application of noncircular gear drives in mechanisms and industry. Updated throughout for the third

edition, Kinematics and Dynamics of Mechanical Systems: Implementation in MATLAB® and Simscape MultibodyTM offers step-by-step instructions on the fundamentals of mechanism kinematics, synthesis, statics and dynamics, alongside demonstrating its real-world applications. Following updates made by MATLAB, replacing Simmechanics with new system Simscape Multibody, this textbook provides updated instructions and example problems to fully enable the reader to use this new and improved system. New features discussed in the book include enhanced rendering, 3D geometry in animations of user-generated solutions for planar linkages, spatial linkages, and robotic systems. The textbook provides the perfect companion to aid students in analyzing and designing mechanical systems. The book will be of interest to students and professional in the field of automotive engineering, mechatronics and robotics, with a special focus on kinematics, dynamics and machine design. This book presents select peer-reviewed proceedings of the International Conference on Advances in Mechanical Engineering (ICAME 2020). The contents cover latest research in several areas such as advanced energy sources, automation, mechatronics and robotics, automobiles, biomedical engineering, CAD/CAM, CFD, advanced engineering materials, mechanical design, heat and mass transfer, manufacturing and production processes, tribology and wear, surface engineering, ergonomics and human factors, artificial intelligence, and supply chain management. The book brings together advancements happening in the different domains of mechanical engineering, and hence, this will be useful for students and researchers working in mechanical engineering. Mechanical engineering at the University of Arkansas developed into a program and a department in the late nineteenth century as the state government slowly began to understand the importance of the subject as part of the land-grant college's mission. After moving into its own building in the 1960s, the mechanical engineering program successfully developed into one that balanced the needs of faculty research with the needs of both undergraduate and graduate students. This is the department's story. This resource covers all areas of interest for the practicing engineer as well as for the student at various levels and educational institutions. It features the work of authors from all over the world who have contributed their expertise and support the globally working engineer in finding a solution for today's mechanical engineering problems. Each subject is discussed in detail and supported by numerous figures and tables. Differential Transformation Method for Mechanical Engineering Problems focuses on applying DTM to a range of mechanical engineering applications. The authors modify traditional DTM to produce two additional methods, multi-step differential transformation method (Ms-DTM) and the hybrid differential transformation method and finite difference method (Hybrid DTM-FDM). It is then demonstrated how these can be a suitable series solution for engineering and physical problems, such as the motion of a spherical particle, nanofluid flow and heat transfer, and micropolar fluid flow and heat transfer. Presents the differential transformation method and why it holds an advantage over higher-order Taylor series methods Includes

a full mathematical introduction to DTM, Ms-DTM, and Hybrid DTM Covers the use of these methods for solving a range of problems in areas such as nanofluid flow, heat transfer, and motion of a spherical particle in different conditions Provides numerous examples and exercises which will help the reader fully grasp the practical applications of these new methods Written by former NASA engineer Dr David Baker, A Degree in a Book: Electrical and Mechanical Engineering is presented in an attractive landscape format in full-color. With timelines, feature spreads and information boxes, readers will quickly get to grips with the fundamentals of electrical and mechanical engineering and their practical applications. The separate ages of engineering are divided into empirical and scientific periods, then the range of possibilities provided by discovery, analysis, invention and application are covered. A final section relates the mechanical and electrical fields of applied engineering to the challenges of the future. This includes environmental responsibility and the value of an engineer in a holistic sense rather than as an isolated individual or as a team member. ABOUT THE SERIES: Get the knowledge of a degree for the price of a book in Arcturus Publishing's A Degree in a Book series. Featuring handy timelines, information boxes, feature spreads and margin annotations, these illustrated fullcolor books are perfect for anyone wishing to master seemingly complex subject with ease and enjoyment.

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