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Easy Peasey Management Information Systems Forest Trees Beginning ASP.NET MVC 1.0 Electronics For Dummies Andreas and the Ambiguity of Courtly Love Electrical Codes, Standards, Recommended Practices and Regulations RF Components and Circuits Transmission and Distribution Electrical Engineering Starting Electronics Simply Electrifying 30 Arduino Projects for the Evil Genius, Second Edition EMC for Product Designers The TAB Book of Arduino Projects: 36 Things to Make with Shields and Proto Shields Modern Engine Blueprinting Techniques Matlab Electrical Engineer's Reference Book Electrical Engineering 101 Digital Transformation DIY Drones for the Evil Genius: Design, Build, and Customize Your Own Drones Well Integrity for Workovers and Recompletions Introduction to Electric Circuits Oil and Gas Pipelines and Piping Systems Reservoir Engineering Handbook Electronic Gadgets for the Evil Genius How to Diagnose and Fix Everything Electronic, Second Edition Beginner's Guide to Reading Schematics, Fourth Edition Electronics from the Ground Up: Learn by Hacking, Designing, and Inventing The Complete Builder's Guide to Hot Rod Chassis and Suspensions The Homeowner's DIY Guide to Electrical Wiring AutoCAD Electrical 2020 Black Book Solar & 12 Volt Power for Beginners It Came from the Garage!

Shift your fear into top gear. Set your pulse racing with this collection of automotive horror that fires on all cylinders. This bad boy comes fully-optioned with fifteen tales of classic cars and motorcycles behaving badly; and the star-studded lineup is sure to provide all the nightmare fuel you can handle. So strap in and hold on, because we're going pedal to the metal. It's blood-soaked horror or bust, and we aren't stopping for anything. You're in for a ride. This updated resource shows how to interpret schematic diagrams—and design your own Written by an experienced engineer, this easy-to-follow TAB guide shows, step-by-step, how to navigate the roadmaps of electronic circuits and systems. Filled with new illustrations and DIY examples, the book clearly explains how to understand and create high-precision electronics diagrams. You will discover how to identify parts and connections, interpret element ratings, and apply diagram-based information in your own projects. Beginner's Guide to Reading Schematics, Fourth Edition, also contains valuable appendices covering symbols, resistor color codes, and parts suppliers. Up-to-date coverage includes:

- Block, schematic, and pictorial diagrams
- Resistors and capacitors
- Inductors and transformers
- Switches, relays, conductors, and cables
- Diodes, transistors, Op amps, and logic gates
- Electron tubes, cells, and batteries
- Voltage dividers and reducers
- Simple and complex circuits
- Breadboards and wire wrapping
- Electronics troubleshooting
- Digital electronics and functional circuits

And much more The ultimate collection of DIY Arduino projects! In this easy-to-follow book, electronics guru Simon Monk shows you how to create a wide variety of fun and functional gadgets with the Arduino Uno and Leonardo boards. Filled with step-by-step instructions and detailed illustrations, The TAB Book of Arduino Projects: 36 Things to Make with Shields and Proto Shields provides a cost estimate, difficulty level, and list of required components for each project. You'll learn how to design custom circuits with Proto Shields and solder parts to the prototyping area to build professional-quality devices. Catapult your Arduino skills to the next level with this hands-on guide. Build these and many more innovative Arduino creations: Persistence-of-vision (POV) display High-power LED controller Color recognizer RFID door lock Fake dog Person counter Laser alarm Theramin-like instrument FM radio receiver Email notifier Network temperature and humidity sensor Seven segment LED clock Larson scanner

Conway's game of life Singing plant Ultrasonic rangefinder Temperature and light logger Autoranging capacitance meter Geiger counter Electronics is fascinating – want to make something of it? This book shows you how! You can make all sorts of things, once you understand what electronics is and how it works. This book helps you out with that part, explaining the whole thing in plain English. Learn how electricity functions, how to harness it and put it to work, what tools you need to build circuits, what you can make with them, and how to do it safely. Mystery solved – understand what makes your iPod, remote control, and computer work Essential stuff – outfit your electronics lab with all the necessary tools, including some that will surprise you Schematic road maps – learn to read schematics and understand how they help your project get where it's going Symbols of power – recognize all the identifiers for power sources, grounds, and components Tools of the trade – discover how to use a multimeter, logic probe, oscilloscope, and solderless breadboard Break it down – get to know the ins and outs of components such as resistors, capacitors, diodes and transistors Getting it together – find out how integrated circuits make all the rest possible and learn to work with them & Analyze it – understand the rules that govern current and voltage and learn how to apply them Open the book and find: The difference between electronics and electricity A list of essential tools Cool projects you can build quickly Great places to find parts Important safety tips What a sine wave is Interesting stuff about speakers, buzzers, and DC motors Ohm's Law and how to use it In How to Build Hot Rod Chassis, highly regarded hot rodding author Jeff Tann covers everything enthusiasts need to know about designing and building their new chassis and suspension system. It thoroughly explores both factory and aftermarket frames, modified factory solid-axle suspensions, and aftermarket independent front and rear suspension setups. No matter what design a reader may be considering for his own car, How to Build Hot Rod Chassis delivers a wealth of information on the pros and cons of all systems available. MatLab, Third Edition is the only book that gives a full introduction to programming in MATLAB combined with an explanation of the software's powerful functions, enabling engineers to fully exploit its extensive capabilities in solving engineering problems. The book provides a systematic, step-by-step approach, building on concepts throughout the text, facilitating easier learning. Sections on common pitfalls and programming guidelines direct students towards best practice. The book is organized into 14 chapters, starting with programming concepts such as variables, assignments, input/output, and selection statements; moves onto loops; and then solves problems using both the 'programming concept' and the 'power of MATLAB' side-by-side. In-depth coverage is given to input/output, a topic that is fundamental to many engineering applications. Vectorized Code has been made into its own chapter, in order to emphasize the importance of using MATLAB efficiently. There are also expanded examples on low-level file input functions, Graphical User Interfaces, and use of MATLAB Version R2012b; modified and new end-of-chapter exercises; improved labeling of plots; and improved standards for variable names and documentation. This book will be a valuable resource for engineers learning to program and model in MATLAB, as well as for undergraduates in engineering and science taking a course that uses (or recommends) MATLAB. Presents programming concepts and MATLAB built-in functions side-by-side Systematic, step-by-step approach, building on concepts throughout the book, facilitating easier learning Sections on common pitfalls and programming guidelines direct students towards best practice Electrical Engineer's Reference Book, Fourteenth Edition focuses on electrical engineering. The book first discusses units, mathematics, and physical quantities, including the international unit system, physical properties, and electricity. The text also looks at network and control systems analysis. The book examines materials used in electrical engineering. Topics include conducting materials, superconductors, silicon, insulating materials, electrical steels, and soft irons and relay steels.

The text underscores electrical metrology and instrumentation, steam-generating plants, turbines and diesel plants, and nuclear reactor plants. The book also discusses alternative energy sources. Concerns include wind, geothermal, wave, ocean thermal, solar, and tidal energy. The text then looks at alternating-current generators. Stator windings, insulation, output equation, armature reaction, and reactants and time-constraints are described. The book also examines overhead lines, cables, power transformers, switchgears and protection, supply and control of reactive power, and power systems operation and control. The text is a vital source of reference for readers interested in electrical engineering. This book explains the fundamentals of reservoir engineering and their practical application in conducting a comprehensive field study. Two new chapters have been included in this second edition: chapter 14 and 15. ASP.NET MVC (Model View Framework) allows you to use ready-to-use MVC code so you can develop Web applications faster. This book's cut-to-the-chase approach gets you up to speed on the new ASP.NET MVC without getting bogging you down in learning or re-learning ASP.NET itself. You'll receive straightforward instruction on concepts, backed by real-world case studies and examples that offer practical solutions. Topics include test-driven development and unit testing, the principles of the MVC pattern, how to implement it, how to move from traditional ASP.NET Webforms to ASP.NET MVC, and much more. A resolution to the vexed problem whether a troubadour's love is erotic or spiritual is offered by Paolo Cherchi through a new reading of Andreas Capellanus' De Amore (written around 1186-1196). He suggests that Andreas, using a rhetorical strategy that creates ambiguity, condemns courtly love because its claim that passion generates virtue is untenable and deceitful. Although Andreas grasped the core of the courtly love 'system,' namely, the relation between passion and ethics, he failed to consider the notion of *mezura*, that courtly virtue through which troubadours transformed nature into culture, and erotic passion into social discourse. Cherchi offers an innovative interpretation and a close reading of selected poems. He traces the history of Provençal lyric poetry, highlighting some of the significant personalities and movements. A Fully Revised Guide to Electronics Troubleshooting and Repair Repair all kinds of electrical products, from modern digital gadgets to analog antiques, with help from this updated book. How to Diagnose and Fix Everything Electronic, Second Edition, offers expert insights, case studies, and step-by-step instruction from a lifelong electronics guru. Discover how to assemble your workbench, use the latest test equipment, zero in on and replace dead components, and handle reassembly. Instructions for specific devices, including stereos, MP3 players, digital cameras, flat-panel TVs, laptops, headsets, and mobile devices are also included in this do-it-yourself guide. Choose the proper tools and set up your workbench Ensure personal safety and use proper eye and ear protection Understand how electrical components work and why they fail Perform preliminary diagnoses based on symptoms Use test equipment, including digital multimeters, ESR meters, frequency counters, and oscilloscopes Interpret block, schematic, and pictorial diagrams Disassemble products and identify sections Analyze circuits, locate faults, and replace dead parts Re-establish connections and reassemble devices "The desire to be recognised, to feel important and appreciated is all-powerful. And the more important you make someone feel, the more positively they will respond to you. We all admire those who seem to have the natural ability to enter an unfamiliar social situation and begin to engage others in conversation. These people have what is often called 'charisma'. While some people wonder how they do it, most assume that they must have a 'natural' talent. The reality is that 'charisma' is an acquired skill of influential people and can be learned, enhanced and perfected when you have the right information and the determination to learn. Easy Peasey - People Skills for Life will provide you with the necessary skills you'll need to become influential with everyone in any situation." - back cover. * Everything the hobbyist needs to build more than 21

*inexpensive "evil genius" electronic devices * Each chapter contains a detailed list of materials, sources for obtaining parts, schematics, documentation, and instructions for assembly * Projects include an ultrasonic microphone, body heat detector, lightning bolt generator, infrared viewer, and a Star Wars light saber*

Chapter 1: System Studies -- Chapter 2: Drawings and Diagrams -- Chapter 3: Substation Layouts -- Chapter 4: Substation Auxiliary Power Supplies -- Chapter 5: Current and Voltage Transformers -- Chapter 6: Insulators -- Chapter 7: Substation Building Services -- Chapter 8: Earthing and Bonding -- Chapter 9: Insulation Coordination -- Chapter 10: Relay Protection -- Chapter 11: Fuses and Miniature Circuit Breakers -- Chapter 12: Cables -- Chapter 13: Switchgear -- Chapter 14: Power Transformers -- Chapter 15: Substation and Overhead Line Foundations -- Chapter 16: Overhead Line Routing -- Chapter 17: Structures, Towers and Poles -- Chapter 18: Overhead Line Conductor and Technical Specifications -- Chapter 19: Testing and Commissioning -- Chapter 20: Electromagnetic Compatibility -- Chapter 21: Supervisory Control and Data Acquisition -- Chapter 22: Project Management -- Chapter 23: Distribution Planning -- Chapter 24: Power Quality- Harmonics in Power Systems -- Chapter 25: Power Qual ...

*Some basic knowledge of electronics is assumed, but the essential features of RF are fully described, including the important topic of receiver dynamic which is often overlooked in basic textbooks. The theory and circuit descriptions are geared towards genuine design applications rather than the oversimplifications and skeleton circuits of many college texts. During his career, the late Joe Carr was one of the world's leading writers on electronics and radio, and an authority on the design and use of RF systems. Whether you are looking for a complete self-study course in RF technology, or a concise reference text to dip into, this book has the solution. A complete course in understanding and designing RF circuits Practical design knowhow from a world-class author Widely regarded as the standard text on EMC, Tim Williams book provides all the key information needed to meet the requirements of the latest EMC Directive. Most importantly, it shows how to incorporate EMC principles into the product design process, avoiding cost and performance penalties, meeting the needs of specific standards and resulting in a better overall product. As well as covering the very latest legal requirements, the fourth edition has been thoroughly updated in line with the latest best practice in EMC compliance and product design. Coverage has been considerably expanded to include the R & TTE and Automotive EMC Directives, as well the military aerospace standards of DEF STAN 59-41 and D0160E. A new chapter on systems EMC is included, while short case studies demonstrate how EMC product design is put into practice. Tim Williams has worked for a variety of companies as an electronic design engineer over the last 25 years. He has monitored the progress of the EMC Directive and its associated standards since it was first made public. He now runs his own consultancy specialising in EMC design and test advice and training. * Includes the compliance procedures of the latest EMC Directive: 2004/108/EC * Short case studies demonstrating how EMC product design is put into practice. * Packed full with many new chapters including: - The R & TTE Directive and the Automotive EMC Directive looking at compliance aspects of radio and telecom terminal equipment and automotive electronic products - New chapter on military aerospace standards of DEP STAN 59-41 and D01 60E - New chapter on systems EMC. Electrical codes, standards, recommended practices and regulations can be complex subjects, yet are essential in both electrical design and life safety issues. This book demystifies their usage. It is a handbook of codes, standards, recommended practices and regulations in the United States involving electrical safety and design. Many engineers and electrical safety professionals may not be aware of all of those documents and their applicability. This book identifies those documents by category, allowing the ready and easy access to the relevant requirements. Because these documents may be updated on a regular basis, this book was written so that its information is not reliant on the latest edition or release*

of those codes, standards, recommended practices or regulations. No single document on the market today attempts to not only list the majority of relevant electrical design and safety codes, standards, recommended practices and regulations, but also explain their use and updating cycles. This book, one-stop-information-center for electrical engineers, electrical safety professionals, and designers, does. Covers the codes, standards, recommended practices and regulations in the United States involving electrical safety and design, providing a comprehensive reference for engineers and electrical safety professionals Documents are identified by category, enabling easy access to the relevant requirements Not version-specific; information is not reliant on the latest edition or release of the codes, standards, recommended practices or regulations This do-it-yourself guide shows you how to program and build projects with the Arduino Uno and Leonardo boards and the Arduino 1.0 development environment. It gets you started right away with the simplified C programming you need to know and demonstrates how to take advantage of the latest Arduino capabilities. You'll learn how to attach an Arduino board to your computer, program it, and connect electronics to it to create your own devices. A bonus chapter uses the special USB keyboard/mouse-impersonation feature exclusive to the Arduino Leonardo-- An Introduction to Electric Circuits is essential reading for first year students of electronics and electrical engineering who need to get to grips quickly with the basic theory. This text is a comprehensive introduction to the topic and, assuming virtually no knowledge, it keeps the mathematical content to a minimum. As with other textbooks in the series, the format of this book enables the student to work at their own pace. It includes numerous worked examples throughout the text and graded exercises, with answers, at the end of each section. Well Integrity for Workovers and Recompletions delivers the concise steps and processes necessary to ensure that production wells minimize failure. After understanding the introductory background on well integrity and establishing the best baseline, the reference advances into various failure modes that can be expected. Rounding out with an explanation and tools concerning economic considerations, such as how to increase reserve potential and rate of return, the book gives oil and gas engineers and managers a vital solution to keeping their assets safe and effective for the long-term gain. Helps readers understand how to protect wells through the production, workover and recompletion lifecycle, both from an economic standpoint and technical view Includes real-world examples with quizzes included at the end of each chapter Examines why establishing an integrity baseline is important, along with a Well Integrity Management System The legendary Silicon Valley entrepreneur examines how both business and government organizations can harness the power of disruptive technologies. Tom Siebel, the billionaire technologist and founder of Siebel Systems, discusses how four technologies—elastic cloud computing, big data, artificial intelligence, and the internet of things—are fundamentally changing how business and government will operate in the 21st century. While this profound and fast-moving transformation can appear daunting to some, Siebel shows how organizations can not only survive, but thrive in the new digital landscape. In this authoritative yet accessible book, Siebel guides readers through the technologies driving digital transformation, and demonstrates how they can strategically exploit their powerful capabilities. He shows how leading enterprises such as Enel, 3M, Royal Dutch Shell, the U.S. Department of Defense, and others are applying AI and IoT with stunning results. A practical, money-saving guide to home electrical wiring Handle residential wiring projects correctly, safely, and according to the National Electrical Code (NEC). Filled with clear photos and helpful diagrams, The Homeowner's DIY Guide to Electrical Wiring shows you how to quickly and easily navigate the portions of the NEC that pertain to residential installations. This hands-on resource covers basic electronics and explains how electrical service progresses through your home. It describes how to install and test electrical systems and lighting, repair appliances and TVs, and

upgrade to the latest innovations such as home networking, home automation, and alternate power systems. You'll learn the procedures used by professional electricians to create the kind of quality work that will pass inspection and add value to your home. The Homeowner's DIY Guide to Electrical Wiring shows how to: Protect against fire and shock hazards Track electrical service from the point of connection to the entrance panel Follow NEC requirements for residential projects Work with test equipment and installation tools Use the best techniques for quality electrical work Design and install indoor and outdoor lighting Maintain and repair electrically powered appliances Fix CRT, plasma, and LCD TVs Design a data and communications network and install coax, USB, and Ethernet cabling Install a home automation system Install backup and alternate power systems Work with smart meters

The AutoCAD Electrical 2020 Black Book starts with basics of Electrical Designing, goes through all the Electrical controls related tools and discusses practical examples of electrical schematic and panel designing. In this edition, two annexures are added to explain basic concepts of control panel designing. Engine production for the typical car manufactured today is a study in mass production. Benefits in the manufacturing process for the manufacturer often run counter to the interests of the end user. What speeds up production and saves manufacturing costs results in an engine that is made to fall within a wide set of standards and specifications, often not optimized to meet the original design. In short, cheap and fast engine production results in a sloppy final product. Of course, this is not what enthusiasts want out of their engines. To maximize the performance of any engine, it must be balanced and blueprinted to the exact tolerances that the factory should have adhered to in the first place. Four cylinder, V-8, American or import, the performance of all engines is greatly improved by balancing and blueprinting. Dedicated enthusiasts and professional racers balance and blueprint their engines because the engines will produce more horsepower and torque, more efficiently use fuel, run cooler and last longer. In this book, expert engine builder and veteran author Mike Mavrigian explains and illustrates the most discriminating engine building techniques and perform detailed procedures, so the engine is perfectly balanced, matched, and optimized. Balancing and blueprinting is a time consuming and exacting process, but the investment in time pays off with superior performance. Through the process, you carefully measure, adjust, machine and fit each part together with precision tolerances, optimizing the design and maximizing performance. The book covers the block, crankshaft, connecting rods, pistons, cylinder heads, intake manifolds, camshaft, measuring tools and final assembly techniques. For more than 50 years, balancing and blueprinting has been an accepted and common practice for maximi Design, build, and pilot custom drones—no prior experience necessary! This fun guide shows, step-by-step, how to construct powerful drones from inexpensive parts, add personalized features, and become a full-fledged pilot. DIY Drones for the Evil Genius: Design, Build, and Customize Your Own Drones not only covers safety, mechanics, drone design, and assembly, but also teaches the basics of Aerospace Engineering. You will discover how to add video transmitters, GPS, first-person view, and virtual reality goggles to your creations. The book walks you through the FAA licensing process and takes a look at advanced concepts, such as artificial intelligence and autonomous flight.

- Learn about aircraft parts, control mechanics, and safety practices
- Become an expert pilot—even handle flips and high-speed maneuvers
- Pick the perfect parts for your high-performance drone
- Find out how to solder and start assembling your drone
- Program the aircraft, calibrate the motors, and start flying!
- Add LED lights, GoPro mounts, and self-balancing camera gimbals
- Explore the world of first-person-view (FPV) drones and high-speed racing
- See how artificial intelligence can be put to use in the drone industry

Know nothing about 12 volt power & solar panels? Then this is the right book for you! Learn how to power laptops, TV's, fans, power tools, DVD's, music, mobile phones and so much more straight from a power supply

that you built. From complete beginner knowing nothing to seasoned off grid expert in a couple of days if not sooner. Learning the basics of providing your own power for your boat, shed, caravan, mobile home etc, has never been made easier for you to understand and master. Simple easy explanations, with no technical jargon and masses of diagrams, photographs and explanations. Making your learning experience an easier, quicker and more pleasant experience for you. Written from the complete beginner's point of view this book will guide you through everything that you need to know in order to realise your off grid dreams today. Only including the essential things that you need to know and throwing the technical gibberish that confuses most beginner's, makes this book a must for newbie's & the confused. Look no further your off grid knowledge is contained within this book, enjoy the experience of learning and living your dream. Get the book & live the dream. Selected for J.P. Morgan's 2018 Holiday Reading List Imagine your life without the internet. Without phones. Without television. Without sprawling cities. Without the freedom to continue working and playing after the sun goes down. Electricity is at the core of all modern life. It has transformed our society more than any other technology. Yet, no book offers a comprehensive history about this technological marvel. Until now. *Simply Electrifying: The Technology that Transformed the World*, from Benjamin Franklin to Elon Musk brings to life the 250-year history of electricity through the stories of the men and women who used it to transform our world: Benjamin Franklin, James Watt, Michael Faraday, Samuel F.B. Morse, Thomas Edison, Samuel Insull, Albert Einstein, Rachel Carson, Elon Musk, and more. In the process, it reveals for the first time the complete, thrilling, and often-dangerous story of electricity's historic discovery, development, and worldwide application. Electricity plays a fundamental role not only in our everyday lives but in history's most pivotal events, from global climate change and the push for wind- and solar-generated electricity to Japan's nuclear accident at Fukushima and Iran's pursuit of nuclear weapons. Written by electricity expert and four-decade veteran of the industry Craig R. Roach, *Simply Electrifying* marshals, in fascinating narrative detail, the full range of factors that shaped the electricity business over time—science, technology, law, politics, government regulation, economics, business strategy, and culture—before looking forward toward the exhilarating prospects for electricity generation and use that will shape our future. *Electrical Engineering 101* covers the basic theory and practice of electronics, starting by answering the question "What is electricity?" It goes on to explain the fundamental principles and components, relating them constantly to real-world examples. Sections on tools and troubleshooting give engineers deeper understanding and the know-how to create and maintain their own electronic design projects. Unlike other books that simply describe electronics and provide step-by-step build instructions, *EE101* delves into how and why electricity and electronics work, giving the reader the tools to take their electronics education to the next level. It is written in a down-to-earth style and explains jargon, technical terms and schematics as they arise. The author builds a genuine understanding of the fundamentals and shows how they can be applied to a range of engineering problems. This third edition includes more real-world examples and a glossary of formulae. It contains new coverage of: Microcontrollers FPGAs Classes of components Memory (RAM, ROM, etc.) Surface mount High speed design Board layout Advanced digital electronics (e.g. processors) Transistor circuits and circuit design Op-amp and logic circuits Use of test equipment Gives readers a simple explanation of complex concepts, in terms they can understand and relate to everyday life. Updated content throughout and new material on the latest technological advances. Provides readers with an invaluable set of tools and references that they can use in their everyday work. *Starting Electronics* is unrivalled as a highly practical introduction for technicians, non-electronic engineers, software engineers, students, and hobbyists. Keith Brindley introduces readers to the functions of the main component types, their uses, and the basic

principles of building and designing electronic circuits. Breadboard layouts make this very much a ready-to-run book for the experimenter, and the use of readily available, inexpensive components makes this practical exploration of electronics easily accessible to all levels of engineer and hobbyist. Other books tell readers what to do, but sometimes fail to explain why – Brindley gives readers hands-on confidence in addition to real scientific knowledge, and insight into the principles as well as the practice. All written explanations and steps are supplemented with numerous photos, charts, tables and graphs. Concepts and practical aspects are explained thoroughly with mathematical formulae and technical schematic drawings. Each chapter introduces a concept or tool, explains the basic theory, and provides clear instructions for a simple experiment to apply the concept or tool, with quiz sections and answers, at the end of each chapter. New chapters on multimeters and soldering will be added, covering the fundamentals and experiments, with a basic parts list and an expanded and updated buyer's guide. Guides the reader through the basics of electronics, from fundamentals of theory to practical work and experiments Structured for learning and self-study: each chapter introduces a concept or tool, explains the basic theory, and provides clear instructions for a simple experiment to apply the concept or tool, with quiz sections and answers, at the end of each chapter New chapters on multimeters and soldering, covering the fundamentals and experiments, with a basic parts list. Expanded and updated buyer's guide to accompany parts lists Forest trees cover one third of the global land surface, constitute many ecosystems, and play a pivotal role in the world economy. This volume details Populus trees, pines, Fagaceae trees, eucalypts, spruces, Douglas fir and black walnut, and offers a first-ever detailed review of Cryptomeria japonica. It thoroughly discusses innovative strategies to address the inherent problems of genome analysis of tree species. Discover the inner-workings of electronics through innovative hands-on experiments Are you fascinated by the power of even the smallest electronic device? Electronics from the Ground Up guides you through step-by-step experiments that reveal how electronic circuits function so you can advance your skills and design custom circuits. You'll work with a range of circuits and signals related to optical emitters and receivers, audio, oscillators, and video. This practical resource explains components, construction techniques, basic test equipment, circuit analysis, and troubleshooting. Photographs, schematics, equations, and graphs are included throughout. By the end of the book, you'll be able to hack and modify existing circuits to create your own unique designs. Do-it-yourself experiments cover: Batteries, lamps, and flashlights Light emitters and receivers Diodes, rectifiers, and associated circuits Transistors, FETs, and vacuum tubes Amplifiers and feedback Audio signals and circuits Oscillators AM and FM signals and circuits Video basics, including video signals Video circuits and systems "Excellent... Nothing can replace hands-on experience and Quan immerses the hobbyist/designer right into the fray up to their elbows."—EDN Magazine Oil and Gas Pipelines and Piping Systems: Design, Construction, Management, and Inspection delivers all the critical aspects needed for oil and gas piping and pipeline condition monitoring and maintenance, along with tactics to minimize costly disruptions within operations. Broken up into two logical parts, the book begins with coverage on pipelines, including essential topics, such as material selection, designing for oil and gas central facilities, tank farms and depots, the construction and installment of transportation pipelines, pipe cleaning, and maintenance checklists. Moving over to piping, information covers piping material selection and designing and construction of plant piping systems, with attention paid to flexibility analysis on piping stress, a must-have component for both refineries with piping and pipeline systems. Heavily illustrated and practical for engineers and managers in oil and gas today, the book supplies the oil and gas industry with a must-have reference for safe and effective pipeline and piping operations. Presents valuable

perspectives on pipelines and piping operations specific to the oil and gas industry Provides all the relevant American and European codes and standards, as well as English and Metric units for easier reference Includes numerous visualizations of equipment and operations, with illustrations from various worldwide case studies and locations

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