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 The Neurology of Consciousness
 The Strange Life of Nikola Tesla
 Infections in Neutropenic Cancer Patients
 The Complete Builder's Guide to Hot Rod Chassis and Suspensions
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 Electrical Engineering 101
 Problems of Designing Passenger Aircraft
 Aeronautical Engineering
 Handbook of Ecological Economics
 Spinal Cord Injury (SCI) Repair Strategies
 Simply Electrifying
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[International Aerospace Abstracts](#) Van Nostrand Reinhold Company
 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.

[The Expression Of The Emotions In Man And Animals](#) Springer Science & Business Media
 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

[The Neurology of Consciousness](#) Elsevier

This Handbook provides an overview of major current debates, trends and perspectives in ecological economics. It covers a wide range of issues, such as the foundations of ecological economics, deliberative methods, the de-growth movement, ecological macroeconomics, social metabolism, environmental governance, consumer studies, knowledge systems and new experimental approaches. Written by leading authors in their respective areas of specialisation, the contributions systematize the “state of the art” in the selected topics, and draw insights about new knowledge frontiers.

[The Strange Life of Nikola Tesla](#) Academic Press

A reference book of math equations used in developing high-performance racing engines, including calculating engine displacement, compression ratio, torque and horsepower, intake and header size, carb size, VE and BSFC, injector sizing and piston speed. --book cover.

[Infections in Neutropenic Cancer Patients](#) Elsevier

This book introduces a new and powerful approach based on rigorous process simulations conducted with professional simulators like HYSYS to predict the performance of supersonic separators (SS). The book addresses the utilization of SSs for the offshore processing of CO2-rich natural gas as an alternative to Joule-Thomson expansion, glycol absorption, membrane permeation and chemical absorption. It describes and analyzes the conventional offshore processing of CO2-rich natural gas, discussing the advantages of SS in terms of cost and power consumption. The book offers a comprehensive framework for modeling SS units, describing the physical principles of SS in detail. The thermodynamic multiphase sound speed is also discussed at the light shed by a classical analysis based on the Landau Model of phase transitions. A complete framework is presented for modelling and simulating SS units within HYSYS environment. A special chapter is dedicated to the performance of SSs for removing CO2 from CO2-rich natural gas, taking into account the limitations of CO2 freeze-out in various scenarios of gas feed in terms of CO2 content, pressure and temperature.

[The Complete Builder's Guide to Hot Rod Chassis and Suspensions](#) Butterworth-Heinemann

[Spinal Cord Injury \(SCI\) Repair Strategies](#) provides researchers the latest information on potential regenerative approaches to spinal cord injury, specifically focusing on therapeutic approaches that target regeneration, including cell therapies, controlled drug delivery systems, and biomaterials. Dr. Giuseppe Perale and Dr. Filippo Rossi lead a team of authoritative authors in academia and industry in this innovative reference on the field of regenerative medicine and tissue engineering. This book presents all the information readers need to understand the current and potential array of techniques, materials, applications and their benefits for spinal cord repair. Covers current and future repair strategies for spinal cord injury repair Focuses on key research trends, clinics, biology and engineering Provides fundamentals on regenerative engineering and tissue engineering
Handbook of Nanoceramic and Nanocomposite Coatings and Materials Springer Nature
 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.

Electrical Engineering 101 McGraw Hill Professional

This book discusses the recent advances in the wastes recycling technologies to provide low-cost and alternative ways for nanomaterials production. It shows how carbon nanomaterials can be synthesized from different waste sources such as banana fibers, argan (*Argania spinosa*) seed shells, corn grains, camellia oleifera shell, sugar cane bagasse, oil palm (empty fruit bunches and leaves) and palm kernel shells. Several nanostructured metal oxides (MnO2, Co3O4,.....) can be synthesized via recycling of spent batteries. The recovered nanomaterials can be applied in many applications including: Energy (supercapacitors, solar cells, etc.) water treatments (heavy metal ions and dyes removal) and other applications. Spent battery and agriculture waste are rich precursors for metals and carbon, respectively. The book also explores the various recycling techniques, agriculture waste recycling, batteries recycling, and different applications of the recycled materials.

[Problems of Designing Passenger Aircraft](#) BoD - Books on Demand

New car and minivan rating guide.

[Aeronautical Engineering](#) Academic Press

Offering a study of biological, biomedical and biocultural approaches, this book is suitable for researchers, professors and graduate students across the interdisciplinary area of human development. It is presented in the form of lectures to facilitate student programming.

Handbook of Ecological Economics CarTech Inc

This book presents the papers from the Internal Combustion Engines: Performance, fuel economy and emissions held in London, UK. This popular international conference from the Institution of Mechanical Engineers provides a forum for IC engine experts looking closely at developments for personal transport applications, though many of the drivers of change apply to light and heavy duty, on and off highway, transport and other sectors. These are exciting times to be working in the IC engine field. With the move towards downsizing, advances in FIE and alternative fuels, new engine architectures and the introduction of Euro 6 in 2014, there are plenty of challenges. The aim remains to reduce both CO2 emissions and the dependence on oil-derived fossil fuels whilst meeting the future, more stringent constraints on gaseous and particulate material emissions as set by EU, North American and Japanese regulations. How will technology developments enhance performance and shape the next generation of designs? The book introduces compression and internal combustion engines' applications, followed by chapters on the challenges faced by alternative fuels and fuel delivery. The remaining chapters explore current improvements in combustion, pollution prevention strategies and data comparisons.

Spinal Cord Injury (SCI) Repair Strategies John Benjamins Publishing

A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports (STAR) and International aerospace abstracts (IAA).

Simply Electrifying Academic Press

There are other actions which are commonly performed under certain circumstances, independently of habit, and which seem to be due to imitation or some sort of sympathy. Thus persons cutting anything with a pair of scissors may be seen to move their jaws simultaneously with the blades of the scissors. Children learning to write often twist about their tongues as their fingers move, in a ridiculous fashion. When a public singer suddenly becomes a little hoarse, many of those present may be heard, as I have been assured by a gentleman on whom I can rely, to clear their throats; but here habit probably comes into play, as we clear our own throats under similar circumstances.

Understanding Automotive Electronics CarTech Inc

Readers familiar with the first three editions of Ecology and Classification of North American Freshwater Invertebrates (edited by J.H. Thorp and A.P. Covich) will welcome the comprehensive revision and expansion of that trusted professional reference manual and educational textbook from a single North American tome into a developing multi-volume series covering inland water invertebrates of the world. The series entitled Thorp and Covich's Freshwater Invertebrates (edited by J.H. Thorp) begins with the current Volume I: Ecology and General Biology (edited by J.H. Thorp and D.C. Rogers), which is designed as a companion volume for the remaining books in the series. Those following volumes provide taxonomic coverage for specific zoogeographic regions of the world, starting with Keys to Nearctic Fauna (Vol. II) and Keys to Palaearctic Fauna (Vol. III). Volume I maintains the ecological and general biological focus of the previous editions but now expands coverage globally in all chapters, includes more taxonomic groups (e.g., chapters on individual insect orders), and covers additional functional topics such as invasive species, economic impacts, and functional ecology. As in previous editions, the 4th edition of Ecology and Classification of North American Freshwater Invertebrates is designed for use by professionals in universities, government agencies, and private companies as well as by undergraduate and graduate students. Global coverage of aquatic invertebrate ecology Discussions on invertebrate ecology, phylogeny, and general biology written by international experts for each group Separate chapters on invasive species and economic impacts and uses of invertebrates Eight additional chapters on insect orders and a chapter on freshwater millipedes Four new chapters on collecting and culturing techniques, ecology of invasive species, economic impacts, and ecological function of invertebrates Overall expansion of ecology and general biology and a shift of the even more detailed taxonomic keys to other volumes in the projected 9-volume series Identification keys to lower taxonomic levels

Performance Automotive Engine Math McGraw Hill Professional

The progressive development of man is vitally dependent on invention. It is the most important product of his creative brain. Its ultimate purpose is the complete mastery of mind over the material world, the harnessing of the forces of nature to human needs. This is the difficult task of the inventor who is often misunderstood and unrewarded. But he finds ample compensation in the pleasing exercises of his powers and in the knowledge of being one of that exceptionally privileged class without whom the race would have long ago perished in the bitter struggle against pitiless elements. Speaking for myself, I have already had more than my full measure of this exquisite enjoyment; so much, that for many years my life was little short of continuous rapture. I am credited with being one of the hardest workers and perhaps I am, if thought is the equivalent of labor, for I have devoted to it almost all of my waking hours. But if work is interpreted to be a definite performance in a specified time according to a rigid rule, then I may be the worst of idlers. Every effort under compulsion demands a sacrifice of life-energy. I never paid such a price. On the contrary, I have thrived on my thoughts. In attempting to give a connected and faithful account of my activities in this story of my life, I must dwell, however reluctantly, on the impressions of my youth and the circumstances and events which have been instrumental in determining my career. Our first endeavors are purely instinctive promptings of an imagination vivid and undisciplined. As we grow older, reason asserts itself and we become more and more systematic and designing. But those early impulses, though not immediately productive, are of the greatest moment and may shape our very destinies. Indeed, I feel now that had I understood and cultivated instead of suppressing them, I would have added substantial value to my bequest to the world. But not until I had attained manhood did I realize that I was an inventor. This was due to a number of causes. In the first place I had a brother who was gifted to an extraordinary degree; one of those rare phenomena of mentality which biological investigation has failed to explain. His premature death left my earth parents disconsolate. (I will explain my remark about my "earth parents" later.) We owned a horse which had been presented to us by a dear friend. It was a magnificent animal of Arabian breed, possessed of almost human intelligence, and was cared for and petted by the whole family, having on one occasion saved my dear father's life under remarkable circumstances. My father had been called one winter night to perform an urgent duty and while crossing the mountains, infested by wolves, the horse became frightened and ran away, throwing him violently to the ground. It arrived home bleeding and exhausted, but after the alarm was sounded, immediately dashed off again, returning to the spot, and before the searching party were far on the way they were met by my father, who had recovered consciousness and remounted, not realizing that he had been lying in the snow for

several hours. This horse was responsible for my brother's injuries from which he died. I witnessed the tragic scene and although so many years have elapsed since, my visual impression of it has lost none of its force. The recollection of his attainments made every effort of mine seem dull in comparison. Anything I did that was creditable merely caused my parents to feel their loss more keenly. So I grew up with little confidence in myself.

Thorp and Covich's Freshwater Invertebrates National Geographic Books

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

NASA SP. Woodhead Publishing

Everything you want to know about the breakthroughs in AI technology, machine learning, and deep learning—as seen in self-driving cars, Netflix recommendations, and more. The future is here: Self-driving cars are on the streets, an algorithm gives you movie and TV recommendations, IBM's Watson triumphed on Jeopardy over puny human brains, computer programs can be trained to play Atari games. But how do all these things work? In this book, Sean Gerrish offers an engaging and accessible overview of the breakthroughs in artificial intelligence and machine learning that have made today's machines so smart. Gerrish outlines some of the key ideas that enable intelligent machines to perceive and interact with the world. He describes the software architecture that allows self-driving cars to stay on the road and to navigate crowded urban environments; the million-dollar Netflix competition for a better recommendation engine (which had an unexpected ending); and how programmers trained computers to perform certain behaviors by offering them treats, as if they were training a dog. He explains how artificial neural networks enable computers to perceive the world—and to play Atari video games better than humans. He explains Watson's famous victory on Jeopardy, and he looks at how computers play games, describing AlphaGo and Deep Blue, which beat reigning world champions at the strategy games of Go and chess. Computers have not yet mastered everything, however; Gerrish outlines the difficulties in creating intelligent agents that can successfully play video games like StarCraft that have evaded solution—at least for now. Gerrish weaves the stories behind these breakthroughs into the narrative, introducing readers to many of the researchers involved, and keeping technical details to a minimum. Science and technology buffs will find this book an essential guide to a future in which machines can outsmart people.

CO2 Sequestration and Valorization Woodhead Publishing

As bone marrow transplant treatments and chemotherapy develop, the population of neutropenic cancer patients is on the rise. These developments are allowing patients to live longer, but in recent years, they have also led to an increase in previously rare infections and syndromes, whose management is unfamiliar to the average healthcare professional. Infections in Neutropenic Cancer Patients is a crucial resource for medical students, residents, practitioners, health professionals, and researchers. It details the clinical presentation, diagnoses, and management of an array of common infections and syndromes specific to neutropenic cancer patients, including real scenarios accompanied by color photos and radiographic results. Chapters include step-by-step tutorials, access to clinical answers on diagnosis and treatment, and a tabulated summary of the key points.

The Comparative Embryology of Sponges Edward Elgar Publishing

3rd Edition. As a result of rapid technological developments, the use of electronic equipment in vehicles has increased immensely. This book covers a wide variety of electric/electronic systems and components, ranging from alternators and starting systems to safety systems, theft deterrence and navigation systems. Automotive Electrics and Electronics provides comprehensive, easy-to-understand descriptions as well as numerous charts, drawings and illustrations. This third edition features a new section on lighting technology and updated information on starter batteries, alternators, starting systems, spark-ignition engine management, diesel-engine management and electromagnetic compatibility. Contents include: Vehicle Electrical System and Circuit Diagrams Electromagnetic Compatibility (EMC) Starter Batteries Traction Batteries Alternators Starting Systems Lighting Technology Washing and cleaning Systems Theft-deterrence systems Comfort and Convenience Systems Information Systems Occupant-Safety Systems Driving-Safety Systems Spark-Ignition-Engine Management Diesel-Engine Management. Comprehensive reference that makes complex electronic issues easier to understand.

Sunlighting as Formgiver for Architecture Library of Alexandria

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.

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