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Popular Science

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

Non-destructive Testing and Repair of Pipelines

Springer This book describes efficient and safe repair operations for pipelines, and develops new methods for the detection and repair of volumetric surface defects in transmission pipelines. It also addresses the physics, mechanics, and applications of advanced materials used for composite repair of corroded pipelines. Presenting results obtained in the European Commission's INNOPIPES FRAMEWORK 7 programme, it develops long-range ultrasonic and phased array technologies for pipeline diagnostics, and explores their interactions with discontinuities and directional properties of ultrasonic antenna array. The book subsequently shares the results of non-destructive testing for different types of materials applications and advanced composite repair systems, and characterizes the mechanical properties by means of fracture methods and non-destructive techniques. In turn, the book assesses the currently available technologies for reinforcement of pipelines, drawing on the experience gai ned by project partners, and evaluates the recovery of the carrying capacity of pipeline sections with local corrosion damage by means of analytical and numerical procedures. It develops an optimization method based on the planning of experiments and surface techniques for advanced composite repair systems, before validating the numerical models developed and experimentally gauging the effectiveness of composite repair with the help of full-scale hydraulic tests.

Aircraft Design Projects

For Engineering Students

Elsevier Written with students of aerospace or aeronautical engineering firmly in mind, this is a practical and wide-ranging book that draws together the various theoretical elements of aircraft design - structures, aerodynamics, propulsion, control and others - and guides the reader in applying them in practice. Based on a range of detailed real-life aircraft design projects, including military training, commercial and concept aircraft, the experienced UK and US based authors present engineering students with an essential toolkit and reference to support their own project work. All aircraft projects are unique and it is impossible to provide a template for the work involved in the design process. However, with the knowledge of the steps in the initial design process and of previous experience from similar projects, students will be freer to concentrate on the innovative and analytical aspects of their course project. The authors bring a unique combination of perspectives and experience to this text. It reflects both British and American academic practices in teaching aircraft design. Lloyd Jenkinson has taught aircraft design at both Loughborough and Southampton universities in the UK and Jim Marchman has taught both aircraft and spacecraft design at Virginia Tech in the US. * Demonstrates how basic aircraft design processes can be successfully applied in reality * Case studies allow both student and instructor to examine particular design challenges * Covers commercial and successful student design projects, and includes over 200 high quality illustrations

Airdrop of supplies and equipment

rigging 130G motor grader

Engineers at War (Hardcover)

Government Printing Office NOTE: NO FURTHER DISCOUNT FOR THIS PRINTED PRODUCT- OVERSTOCK SALE -- Significantly reduced list price Engineers at War describes the role of military engineers, especially the U.S. Army Corps of Engineers, in the Vietnam War. It is a story of the engineers' battle against an elusive and determined enemy in one of the harshest underdeveloped regions of the world. Despite these challenges, engineer soldiers successfully carried out their combat and construction missions. The building effort in South Vietnam allowed the United States to deploy and operate a modern 500,000-man force in a far-off region. Although the engineers faced huge construction tasks, they were always ready to support the combat troops. They built ports and depots, carved airfields and airstrips out of jungle and mountain plateaus, repaired roads and bridges, and constructed bases. Because of these efforts, ground combat troops with their supporting engineers were able to fight the enemy from well-established bases. Although most of the construction was temporary, more durable facilities, such as airfields, port and depot complexes, headquarters buildings, communications facilities, and an improved highway system, were intended to serve as economic assets for South Vietnam. This volume covers how the engineers grew from a few advisory detachments to a force of more than 10 percent of the Army troops serving in South Vietnam. The 35th Engineer Group began arriving in large numbers in June 1965 to begin transforming Cam Ranh Bay into a major port, airfield, and depot complex. Within a few years, the Army engineers had expanded to a command, two brigades, six groups, twenty-eight construction and combat battalions, and many smaller units. Other products produced by the U.S. Army, Center of Military History can be found here: https://bookstore.gpo.gov/agency/1061

SIMD Programming Manual for Linux and Windows

Springer Science & Business Media A number of widely used contemporary processors have instruction-set extensions for improved performance in multi-media applications. The aim is to allow operations to proceed on multiple pixels each clock cycle. Such instruction-sets have been incorporated both in specialist DSPchips such as the Texas C62xx (Texas Instruments, 1998) and in general purpose CPU chips like the Intel IA32 (Intel, 2000) or the AMD K6 (Advanced Micro Devices, 1999). These instruction-set extensions are typically based on the Single Instruc tion-stream Multiple Data-stream (SIMD) model in which a single instruction causes the same mathematical operation to be carried out on several operands, or pairs of operands, at the same time. The level or parallelism supported ranges from two floating point operations, at a time on the AMD K6 architecture to 16 byte operations at a time on the Intel P4 architecture. Whereas processor architectures are moving towards greater levels of parallelism, the most widely used programming languages such as C, Java and Delphi are structured around a model of computation in which operations takeplace on a single value at a time. This was appropriate when processors worked this way, but has become an impediment to programmers seeking to make use of the performance offered by multi-media instruction -sets. The introduction of SIMD instruction sets (Peleg et al.

Venomous Reptiles and Their Toxins

Evolution, Pathophysiology, and Biodiscovery

Oxford University Press, USA Venom research and technology has advanced greatly, rapidly transforming our knowledge of reptile venoms. Research advances, like the development of molecular systematics, provide the framework necessary to reconstruct the evolutionary history of glands and fangs. Such research developments have expanded our understanding of venom's evolution and its usefulness in therapeutic development. The results of this punctuated toxin molecular evolutionary expansion include protein neofunctionalization. While these changes may impact antivenom efficacy, this molecular diversity also facilitates their usefulness in the development of novel drug therapies. Venomous Reptiles And Their Toxins brings together the world's leading toxinologists in this comprehensive study of the entire scope of reptile venoms, from clinical effects to evolution to drug design and development. The book contains detailed applied chapters on clinical care of the envenomed patient, ineffective traditional or modern remedies, occupational considerations involved in the maintenance of institutional venomous reptile collections, veterinary care for venomous reptiles and research methods used in venom research. This book also devotes a chapter to each toxin class found in reptile venoms, detailing the full trajectory of research on the peptide or protein in question. These chapters discuss each toxin's respective role in the envenomation process through to how each has been explored for their biomedical potential. This book is a unique resource for anyone working with venomous reptiles.

Travels in Peru and India

While Superintending the Collection of Chinchona Plants and Seeds in South America, and Their Introduction Into India

Missile Configuration Design

Beskriver principperne i f.m. konstruktionen af styrede missiler.

Electronic Warfare and Radar Systems Engineering Handbook

This handbook is designed to aid electronic warfare and radar systems engineers in making general estimations regarding capabilities of systems. It is not intended as a detailed designer's guide, due to space limitations. Portions of the handbook and future changes will be posted on an internet link.

The Military Balance 2021

Routledge Published each year since 1959, The Military Balance is an indispensable reference to the capabilities of armed forces across the globe. It will be of interest to anyone interested in security and military issues and is regularly consulted by academia, media, armed forces, the private sector and government. Key Elements: 1. Data on the military organisations, equipment inventories and defence budgets of 171 countries 2. Analysis of major developments affecting defence policy and procurement, and defence economics, arranged region-by-region. 3. Key trends in the land, sea and air domains, and in cyberspace 4. Selected defence procurement programmes, arranged region-by-region 5. Full-colour graphics including maps and illustrations 6. Extensive explanatory notes and references 7. The hardcopy edition is accompanied by a full-colour wall chart Features in the 2021 edition include: - Analytical texts on future maritime competition, battle management systems, China's civil-military integration and fractures in the arms-control environment - Military cyber capabilities - Analysis of developments in defence policy, military capability and defence economics and industry for China, Egypt, Finland, Indonesia, Russia, Senegal and the United States. - A wallchart illustrating global submarine holdings and key trends in subsurface warfare

Vehicle Security Systems

Build Your Own Alarm and Protection Systems

Newnes A concise and thoroughly practical guide to building and installing car alarms. The project-based approach makes this book ideal for students and hobbyists; design and installation engineers will also find it of interest. Every circuit in this book is clearly described and illustrated, and contains components that are easy to source. Advice and guidance are based on real experience, and the designs themselves have been rigorously put to use on some of the most car-crime-ridden streets in the world. The designs in this book include systems as simple as a warning beacon, a range of immobilisers, and a basic alarm system; and more advanced systems that include add-on features such as a personal attack button and a courtesy light delay. Intruder detectors are described, and full constructional details are given including a guide to fault diagnosis and step-by-step installation instructions.

Guided Missiles and Rockets

Field Artillery

Gunnery

American Cinematographer Manual

Lightning Source Incorporated

Product Lifecycle Management (Volume 4): The Case Studies

Springer This book presents some twenty case studies, showing how companies in different industry sectors and of different sizes make advances in Product Lifecycle Management (PLM). Like the author's previous volumes, this book provides a valuable resource for those wishing to learn about PLM and how to implement and apply it in their companies. Helping readers to · learn about implementing and benefiting from PLM; · learn about good PLM solutions and best practice; · improve their planning and decision-making abilities; · benefit from the lessons learned by the companies featured in the case studies; · proceed faster and further with PLM the book presents effective PLM solutions and best practices. At the same time, the case studies included demonstrate how different companies implement and benefit from PLM. Each case study is addressed in a separate chapter and details a different situation, enabling readers to put themselves in the situation and think through different actions and decisions. A valuable resource for PLM team managers and employees in engineering and manufacturing companies, the book is also of interest to researchers and students in industrial engineering fields.

Cars & Parts

PC Magazine

The Independent Guide to IBM-standard Personal Computing

Close Combat Mission Capability Kit

Purpose of Equipment: The CCMCK Weapon Conversion System allows Force-On-Force close combat training bytemporarily converting service weapons (M16A2/M16A3/M16A4 Rifles, M4/M4A1 Carbines, M249 Squad AutomaticWeapons (SAW), and M9 and M11 Pistols) to fire low-velocity marking ammunition. CCMCK ammunitionincludes 5.56mm Bulk marking ammunition for the M16A2/M16A3/M16A4 Rifle and M4/M4A1 Carbine, 5.56mmLinked marking ammunition for the M249 SAW, and 9mm marking ammunition for the M9 and M11 Pistols. Markingammunition, manufactured in red, blue, and yellow, is loaded into the magazine of the converted weapon in the samemanner as service ammunition. Once loaded, the weapon cycles and functions the same as service ammunition andmarks the target with minimal hazard to personnel wearing appropriate safety equipment. The system allows normalweapon employment cues such as aiming, firing, Force-On-Force training, and interactive live-fire scenario task and mission execution.

Aircraft Yearbook

The Old East Indiamen

DigiCat In this volume, the author has attempted to present a remarkable era of the world's progress through a detailed history of the old East Indiamen. It was the name given to the ships that used to carry the trade between India and Europe. The author writes of a period in which the sailing ship revolutionized British trade and laid the foundations of and almost finished that imposing structure that the Indian Empire represented during the 1820s. It was a time full of romance, adventures, expeditions, and the thrilling pursuit of wealth. Any sailing ship working under any East India trading companies of the central European trading powers of the 17th to the 19th centuries was called East Indiaman. E. Keble Chatterton wrote this history brilliantly, providing every detail on the subject accurately. It is an insightful work on the 17th to 19th-century trade in Europe.

Road & Track

Food and Foodways in Italy from 1861 to the Present

Springer Despite being a universal experience, eating occures with remarkable variety across time and place: not only do we not eat the same things, but the related technologies, rituals, and even the timing are in constant flux. This lively and innovative history paints a fresco of the Italian nation by looking at its storied relationship to food.

Aerospace Engineering e-Mega Reference

Butterworth-Heinemann A one-stop Desk Reference, for engineers involved in all aspects of aerospace; this is a book that will not gather dust on the shelf. It brings together the essential professional reference content from leading international contributors in the field. Material covers a broad topic range from Structural Components of Aircraft, Design and Airworthiness to Aerodynamics and Modelling * A fully searchable Mega Reference Ebook, providing all the essential material needed by Aerospace Engineers on a day-to-day basis. * Fundamentals, key techniques, engineering best practice and rules-of-thumb together in one quick-reference. * Over 2,500 pages of reference material, including over 1,500 pages not included in the print edition

Journal of a Lady of Quality

Applewood Books Alexander and Janet Schaw, Scottish siblings, began a journey in 1774 that would take them from Edinburgh to the Caribbean Islands and then to America. Part of the early wave of Scottish colonization, the pair visited family and friends who had already established themselves in the colonies. ""Journal of a Lady of Quality"" is Janet Schaw's account of this voyage through letters to a friend in Scotland. The letters describe the sights, scenery, and social life she encountered, but they also reveal the political atmosphere of an America on the verge of revolution. Stephen Carl Arch provides a new introduction for this Bison Books edition.

Virginia Local Tax Rates

LexisNexis Even though local governments raise revenues under authority granted by state government, there are many differences in the taxes, fees, and charges that localities impose. Each year the University of Virginia's Weldon Cooper Center for Public Service conducts a comprehensive survey on the tax rates of all cities, counties and incorporated towns in Virginia and provides the results in its annual book, Virginia Local Tax Rates. This publication allows you to compare local government tax policies across Virginia and provides detailed background information on local taxes rates. All cities and counties participated in the latest 2018 survey, as did 133 of the 190 incorprated towns. The survey's results, plus additional information from other sources, provide a comprehensive picture of local tax policies in the state. The text includes descriptions of authorizing state statutes, the various tax categories, and statewide statistics including ranges and averages. Anyone involved with local governments in Virginia, either as a taxpayer, elected official, administrator, business leader, or researcher, will find this an indispensable resource.

Intelligent Projects Using Python

9 real-world AI projects leveraging machine learning and deep learning with TensorFlow and Keras

Packt Publishing Ltd Implement machine learning and deep learning methodologies to build smart, cognitive AI projects using Python Key FeaturesA go-to guide to help you master AI algorithms and concepts8 real-world projects tackling different challenges in healthcare, e-commerce, and surveillanceUse TensorFlow, Keras, and other Python libraries to implement smart AI applicationsBook Description This book will be a perfect companion if you want to build insightful projects from leading AI domains using Python. The book covers detailed implementation of projects from all the core disciplines of AI. We start by covering the basics of how to create smart systems using machine learning and deep learning techniques. You will assimilate various neural network architectures such as CNN, RNN, LSTM, to solve critical new world challenges. You will learn to train a model to detect diabetic retinopathy conditions in the human eye and create an intelligent system for performing a video-to-text translation. You will use the transfer learning technique in the healthcare domain and implement style transfer using GANs. Later you will learn to build AI-based recommendation systems, a mobile app for sentiment analysis and a powerful chatbot for carrying customer services. You will implement AI techniques in the cybersecurity domain to generate Captchas. Later you will train and build autonomous vehicles to self-drive using reinforcement learning. You will be using libraries from the Python ecosystem such as TensorFlow, Keras and more to bring the core aspects of machine learning, deep learning, and AI. By the end of this book, you will be skilled to build your own smart models for tackling any kind of AI problems without any hassle. What you will learnBuild an intelligent machine translation system using seq-2-seq neural translation machinesCreate AI applications using GAN and deploy smart mobile apps using TensorFlowTranslate videos into text using CNN and RNNImplement smart AI Chatbots, and integrate and extend them in several domainsCreate smart reinforcement, learning-based applications using Q-LearningBreak and generate CAPTCHA using Deep Learning and Adversarial Learning Who this book is for This book is intended for data scientists, machine learning professionals, and deep learning practitioners who are ready to extend their knowledge and potential in AI. If you want to build real-life smart systems to play a crucial role in every complex domain, then this book is what you need. Knowledge of Python programming and a familiarity with basic machine learning and deep learning concepts are expected to help you get the most out of the book

U.S. Standard Atmosphere Supplements, 1966

Financial Budget Manual

Original Porsche 911 1964-1998

The Definitive Guide to Mechanical Systems, Specifications and History

Motorbooks The definitive guide to 100% original and correct Porsche 911 restoration, this book covers every inch of each air-cooled 911 generation in precise detail. It includes mechanical details, bodywork, interiors, and more, all illustrated with exquisite color photographs and in-depth text. The last word on the Porsche 911, this book is the resource that no collector--whether a practical restorer or a die-hard enthusiast--can afford to be without.

Utility and Cargo Helicopter Operations (FM 3-04. 113)

Createspace Independent Pub Field manual (FM) 3-04.113, "Utility and Cargo Helicopter Operations," is intended for use by commanders, staffs, and United States (U.S.) military personnel expecting to operate and employ Army aviation assault and/or general support (GS) helicopter units. This FM is the Army's doctrine for how to fight and sustain assault helicopter battalions (AHBs) and general support aviation battalions (GSABs). The operational concepts described in this manual are based on Army doctrine as established in FM 1, FM 3-0, and FM 3-04.111. Emphasis is placed on modular force structure and the enhanced operational capability provided by Army aviation transformation. FM 3-04.113 applies to regular Army and reserve component units. It builds on collective knowledge and experience gained through recent operations, numerous exercises, and the deliberate process of informed reasoning. This publication is rooted in time-tested principles and fundamentals, while accommodating new technologies, and evolving responses to the diverse threats to our national security. This manual also assists Army proponent schools in teaching utility and cargo helicopter operations. FM 3-04.113 lays out the "how-to" of assault and GS helicopter organizations, missions, command and control (C2), tactical employment, and sustainment. It describes the responsibilities and duties of key personnel during training, operations, and combat. This manual is authoritative but not considered inflexible. Each situation in combat must be resolved by an intelligent interpretation and application of the doctrine set forth herein. Standardized battalion and company operations are necessary for effective employment of aviation battalion task forces (ABTFs). To this end, like companies should follow similar operational and employment procedures. Finally, FM 3-04.113 furnishes a foundation for assault and GS helicopter doctrine, force design, materiel acquisition, professional education, and individual and unit training.

Protecting the Ozone Layer

David Busch's Nikon D700 Guide to Digital SLR Photography

Cengage Learning Each book offers an introduction to a particular digital SLR camera, then explores a number of shooting situations, recommending how to get the best possible shots, in a series where each entry includes full-color photos and tips and information not found in the user's manual.

Quattro

The Race and Rally Story: 1980-2004

Evro Publishing Limited The word 'Quattro', chosen by Audi for its pioneering high-performance four-wheel-drive cars, immediately captures glamour and excitement in the minds of all motorsport enthusiasts. This book, written by a leading journalist and Quattro devotee, explores 24 years of factory-prepared and factory-supported Quattros in motorsport, from 1980 to 2004. It is a tale that extends from rough rally stages to race tracks, from pine-fringed ice trails in the depths of European winters to the shimmering heat haze and melting asphalt of Texas street racing. Along the way, it explains how Quattros collected four world rally championships, five American driver/manufacturer crowns and a single-year haul of seven international touring car titles, plus numerous other honours. With the five-cylinder turbocharged Quattro in its original form, rallying in the early years yielded numerous wins, most of all in 1982, when seven victories in 11 world championship rallies brought the first title. With the short-wheelbase Sport added to Audi's armoury, 1984 became an all-action, all-conquering rallying season with two more world titles won, for drivers (Stig Blomqvist) and manufacturers. Three stunning Pike's Peak wins were achieved in America in successive years, for Michele Mouton (1985), Bobby Unser (1986) and Walter Röhrl (1987). Starting with double championships for the 200 quattro in TransAm (1988) and the 90 Quattro in IMSA (1989), racing success unfolded in America. Exuberant Hans Stuck was the star driver, but consistent team-mate Hurley Haywood captured that 1988 title. Touring car campaigns during the 1990s brought huge success, starting with fearsome V8 Quattro 'racing limos' in Germany. Global achievements followed with A4 Quattros in many national Super Touring series throughout Europe and in Australia, including Frank Biela's 1996 title-winning campaign in Britain. Audi continued to win on track in the new millennium as race versions of the S4 and RS6 captured five SCCA GT Championship titles in America.

Multiservice Helicopter Sling Load

Basic Operations And Equipment: COMDTINST M13482.2B

Independently Published Multiservice Helicopter Sling Load: Basic Operations And Equipment COMDTINST M13482.2B; TM 4-48.09 (FM 4-20.197); MCRP 4-11.3E; NTTP 3-04.11; AFMAN 11-223 On the Cover: K9 Piper is one of the very special dogs that keep airports safe. You can find Piper's social media accounts by searching: @airportsk9. This manual is one of a series of manuals for aviation and ground personnel who perform helicopter sling load missions ashore or aboard ship. These manuals are a coordinated effort of the US Army, US Marine Corps, US Navy, US Air Force, and US Coast Guard. All services participate in the sling load certification program begun by the Army in 1984. These manuals include standardized rigging procedures and other information from that program. Efforts were made to standardize ground crew and hookup procedures and terminology. The terms "helicopter" and "aircraft" refer to vertical lift aircraft that participate in sling load operations. Where service-unique requirements apply to an entire chapter or body of text, the service initials are at the beginning of the chapter or text. Otherwise the initials are at the end of the applicable sentence. The information in this manual will familiarize personnel with the sling sets, cargo nets, and other sling load equipment in the DOD inventory. It will also acquaint them with the helicopters used for sling load and provide basic procedures for rigging and hooking up loads. Rigging equipment and procedures described in this manual may not be authorized for all aircraft or services because of equipment or service restrictions. This manual does not provide details on aviation operations nor does it present detailed data that is normally contained in unit standing operating procedures (SOPs). Why buy a book you can download for free? We print the paperback book so you don't have to. First you gotta find a good clean (legible) copy and make sure it's the latest version (not always easy). Some documents found on the web are missing some pages or the image quality is so poor, they are difficult to read. If you find a good copy, you could print it using a network printer you share with 100 other people (typically its either out of paper or toner). If it's just a 10-page document, no problem, but if it's 250-pages, you will need to punch 3 holes in all those pages and put it in a 3-ring binder. Takes at least an hour. It's much more cost-effective to just order the bound paperback from Amazon.com This book includes original commentary which is copyright material. Note that government documents are in the public domain. We print these paperbacks as a service so you don't have to. The books are compact, tightly-bound paperback, full-size (8 1/2 by 11 inches), with large text and glossy covers. 4th Watch Publishing Co. is a HUBZONE SDVOSB. https: //usgovpub.com

Turbo 3. 0 (Publisher's Edition)

Porsche's First Turbocharged Supercar

Carefully researched using the Porsche factory archives, private collections, period documentation and intensive study. In an attempt to cover everything an owner, restorer, historian or enthusiast would want to know about the dawn of Porsche's turbocharged supercar, the Turbo 3.0 book includes a considerable amount of material never before published. For example: comprehensive discussions of original options, close-up photos of key details, scenes from factory production, coverage of special one-off models and period motorsports. This exhaustive volume not only covers the privateer racing exploits of the 3.0-liter Turbo, but also the development of production-based turbocharged race cars by examining the Carrera RSR Turbo 2.14 and Turbo RSR 934/934.5. Additionally, it includes interviews with factory engineers, development drivers and racing pilots involved with the development of Porsche's original Turbo. This is the definitive book about Porsche's immortal 3.0-liter Turbo and it is essential reading for anyone who has ever owned, driven or simply lusted after the first supercar of the modern era.

The Illustrated Encyclopedia of Extraordinary Automobiles

Dorling Kindersley Ltd Describes a variety of automobiles, both production models and prototypes, from the birth of the combustion engine to the present day.