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2010/11Eyes of ArtilleryEnergy Efficiency in Motor
Driven SystemsIn His PresenceEaten by a Giant
ClamProviding the Means of WarDiesel Generator
HandbookEngineering Fundamentals of the Internal
Combustion Engine: Pearson New International
EditionPopular MechanicsCommon Ground at the
Nexus of Information Literacy and Scholarly
CommunicationCalifornia Builder &
EngineerIntegrated Circuit Test EngineeringMarine
Auxiliary MachineryBioinformaticsCost, Effectiveness,
and Deployment of Fuel Economy Technologies for
Light-Duty VehiclesWorld Ocean AssessmentFeminism
and the Politics of Travel After the EnlightenmentHigh
Performance ComputingDigital Enterprise and
Information SystemsEngine ServiceLogistics
Management & Distribution ReportTrends and
Applications of Serious Gaming and Social
MediaManaging Multimedia SemanticsA Practical
Approach to Motor Vehicle Engineering and
MaintenanceDiesel Engine and Fuel System
RepairUnpacking Complexity in Informational
TextsVehicle Identification Number Requirements (Us
National Highway Traffic Safety Administration
Regulation) (Nhtsa) (2018 Edition)Two-Stroke Cycle
EngineIntroduction to Instrumentation and
MeasurementsCommercial Carrier JournalF & S Index
United States AnnualHandbook of Air Conditioning
and RefrigerationCCSP (ISC)2 Certified Cloud Security
Professional Official Study GuideForthcoming

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Books Troubleshooting Marine Diesel Engines, 4th Ed. Fleet Owner Heavy Vehicle and Engine Resource Guide Advanced Mechatronics and MEMS Devices II (ISC)2 CCSP Certified Cloud Security Professional Official Practice Tests

Books in Print Supplement

The State of Africa 2010/11

Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle.

Eyes of Artillery

"In this book, Andy Baxevanis and Francis Ouellette . . . have undertaken the difficult task of organizing the knowledge in this field in a logical progression and presenting it in a digestible form. And they have done an excellent job. This fine text will make a major impact on biological research and, in turn, on progress in biomedicine. We are all in their debt."
—Eric Lander from the Foreword
Reviews from the First Edition "provides a broad overview of the basic tools for sequence analysis For biologists approaching this subject for the first time, it will be a very useful handbook to keep on the shelf after the first reading,

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close to the computer." —Nature Structural Biology
"should be in the personal library of any biologist who uses the Internet for the analysis of DNA and protein sequencedata." —Science "a wonderful primer designed to navigate the novice through the intricacies of in scripto analysis The accomplished gene researcher will also find this book a useful addition to their library an excellent reference to the principles of bioinformatics." —Trends in Biochemical Sciences
This new edition of the highly successful Bioinformatics: A Practical Guide to the Analysis of Genes and Proteins provides a sound foundation of basic concepts, with practical discussions and comparisons of both computational tools and databases relevant to biological research. Equipping biologists with the modern tools necessary to solve practical problems in sequence data analysis, the Second Edition covers the broad spectrum of topics in bioinformatics, ranging from Internet concepts to predictive algorithms used on sequence, structure, and expression data. With chapters written by experts in the field, this up-to-date reference thoroughly covers vital concepts and is appropriate for both the novice and the experienced practitioner. Written in clear, simple language, the book is accessible to users without an advanced mathematical or computer science background. This new edition includes: All new end-of-chapter Web resources, bibliographies, and problem sets Accompanying Web site containing the answers to the problems, as well as links to relevant Web resources New coverage of comparative genomics, large-scale genome analysis, sequence assembly, and expressed sequence tags A glossary of commonly

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used terms in bioinformatics and genomics
Bioinformatics: A Practical Guide to the Analysis of Genes and Proteins, Second Edition is essential reading for researchers, instructors, and students of all levels in molecular biology and bioinformatics, as well as for investigators involved in genomics, positional cloning, clinical research, and computational biology.

Energy Efficiency in Motor Driven Systems

This book constitutes the refereed proceedings of the 30th International Conference, ISC High Performance 2015, [formerly known as the International Supercomputing Conference] held in Frankfurt, Germany, in July 2015. The 27 revised full papers presented together with 10 short papers were carefully reviewed and selected from 67 submissions. The papers cover the following topics: cost-efficient data centers, scalable applications, advances in algorithms, scientific libraries, programming models, architectures, performance models and analysis, automatic performance optimization, parallel I/O and energy efficiency.

In His Presence

Weighing in on the growth of innovative technologies, the adoption of new standards, and the lack of educational development as it relates to current and emerging applications, the third edition of Introduction to Instrumentation and Measurements uses the authors' 40 years of teaching experience to

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expound on the theory, science, and art of modern instrumentation and measurements (I&M). What's New in This Edition: This edition includes material on modern integrated circuit (IC) and photonic sensors, micro-electro-mechanical (MEM) and nano-electro-mechanical (NEM) sensors, chemical and radiation sensors, signal conditioning, noise, data interfaces, and basic digital signal processing (DSP), and upgrades every chapter with the latest advancements. It contains new material on the designs of micro-electro-mechanical (MEMS) sensors, adds two new chapters on wireless instrumentation and microsensors, and incorporates extensive biomedical examples and problems. Containing 13 chapters, this third edition: Describes sensor dynamics, signal conditioning, and data display and storage Focuses on means of conditioning the analog outputs of various sensors Considers noise and coherent interference in measurements in depth Covers the traditional topics of DC null methods of measurement and AC null measurements Examines Wheatstone and Kelvin bridges and potentiometers Explores the major AC bridges used to measure inductance, Q, capacitance, and D Presents a survey of sensor mechanisms Includes a description and analysis of sensors based on the giant magnetoresistive effect (GMR) and the anisotropic magnetoresistive (AMR) effect Provides a detailed analysis of mechanical gyroscopes, clinometers, and accelerometers Contains the classic means of measuring electrical quantities Examines digital interfaces in measurement systems Defines digital signal conditioning in instrumentation Addresses solid-state chemical microsensors and wireless

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instrumentation Introduces mechanical microsensors (MEMS and NEMS) Details examples of the design of measurement systems Introduction to Instrumentation and Measurements is written with practicing engineers and scientists in mind, and is intended to be used in a classroom course or as a reference. It is assumed that the reader has taken core EE curriculum courses or their equivalents.

Eaten by a Giant Clam

Marine Auxiliary Machinery, Seventh Edition is a 16-chapter text that covers the significant advances in marine auxiliary machinery relevant to the certification of competency examinations. The introductory chapters deal with the basic components of marine machineries, such as propulsion system, heat exchanger, valves, and pipelines. The succeeding chapters describe the pumps and pumping system, specifically the tanker and gas carrier cargo pumps. Considerable chapters are devoted to the operation of machinery's major components, including the propeller shaft, steering gear, auxiliary power, bow thrusters, and stabilizers. Other chapters consider the refrigeration, heating, ventilation, and air conditioning systems. The final chapters tackle the safety system of marine auxiliary machinery, particularly the fire protection, safety, instrumentation, and control systems. This book will prove useful to marine and mechanical engineers.

Providing the Means of War

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Written by a practitioner, this comprehensive guide presents all the information and skills needed by the proficient diesel mechanic. Throughout, the material emphasizes the practical, nuts-and-bolts aspects of the trade. Each chapter contains a brief introduction, a list of objectives, and a general treatment of the subject at hand, a treatment of related component parts and nomenclature that familiarizes readers with terms and parts and a detailed discussion of the theory of operation, repair and overhaul, assembly, testing, and adjustment. Procedures are highlighted for easy reference. Also included are practical advice and approaches to troubleshooting as well as summaries, lists of review questions, and numerous illustrations.

Diesel Generator Handbook

Using the book and the software provided with it, the reader can build his/her own tester arrangement to investigate key aspects of analog-, digital- and mixed system circuits Plan of attack based on traditional testing, circuit design and circuit manufacture allows the reader to appreciate a testing regime from the point of view of all the participating interests Worked examples based on theoretical bookwork, practical experimentation and simulation exercises teach the reader how to test circuits thoroughly and effectively

Engineering Fundamentals of the Internal Combustion Engine: Pearson New International Edition

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The Law Library presents the complete text of the Vehicle Identification Number Requirements (US National Highway Traffic Safety Administration Regulation) (NHTSA) (2018 Edition). Updated as of May 29, 2018 Based on concerns that the supply of unique available Vehicle Identification Numbers is diminishing, NHTSA is proposing to amend the agency's Vehicle Identification Number (VIN) regulation. The amendment would ensure that there will be a sufficient number of unique manufacturer identifiers and VINs for the current 17-character VIN system to use for at least another 30 years. This NPRM also proposes other changes to the VIN requirements, such as proposing to require that certain vehicle characteristics of low speed vehicles (LSVs) must be reflected in the VIN of LSVs. This rulemaking also responds to a petition for rulemaking from SAE International (SAE). This ebook contains: - The complete text of the Vehicle Identification Number Requirements (US National Highway Traffic Safety Administration Regulation) (NHTSA) (2018 Edition) - A dynamic table of content linking to each section - A table of contents in introduction presenting a general overview of the structure

Popular Mechanics

The only official CCSP practice test product endorsed by (ISC)2 With over 1,000 practice questions, this book gives you the opportunity to test your level of understanding and gauge your readiness for the Certified Cloud Security Professional (CCSP) exam long before the big day. These questions cover 100%

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of the CCSP exam domains, and include answers with full explanations to help you understand the reasoning and approach for each. Logical organization by domain allows you to practice only the areas you need to bring you up to par, without wasting precious time on topics you've already mastered. As the only official practice test product for the CCSP exam endorsed by (ISC)2, this essential resource is your best bet for gaining a thorough understanding of the topic. It also illustrates the relative importance of each domain, helping you plan your remaining study time so you can go into the exam fully confident in your knowledge. When you're ready, two practice exams allow you to simulate the exam day experience and apply your own test-taking strategies with domains given in proportion to the real thing. The online learning environment and practice exams are the perfect way to prepare, and make your progress easy to track.

Common Ground at the Nexus of Information Literacy and Scholarly Communication

California Builder & Engineer

For a one-semester, undergraduate-level course in Internal Combustion Engines. This applied thermoscience text explores the basic principles and applications of various types of internal combustion engines, with a major emphasis on reciprocating engines. It covers both spark ignition and

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compression ignition engines—as well as those operating on four-stroke cycles and on two stroke cycles—ranging in size from small model airplane engines to the larger stationary engines.

Integrated Circuit Test Engineering

This book introduces the state-of-the-art technologies in mechatronics, robotics, and MEMS devices in order to improve their methodologies. It provides a follow-up to "Advanced Mechatronics and MEMS Devices" (2013) with an exploration of the most up-to-date technologies and their applications, shown through examples that give readers insights and lessons learned from actual projects. Researchers on mechatronics, robotics, and MEMS as well as graduate students in mechanical engineering will find chapters on: Fundamental design and working principles on MEMS accelerometers Innovative mobile technologies Force/tactile sensors development Control schemes for reconfigurable robotic systems Inertial microfluidics Piezoelectric force sensors and dynamic calibration techniques And more. Authors explore applications in the areas of agriculture, biomedicine, advanced manufacturing, and space. Micro-assembly for current and future industries is also considered, as well as the design and development of micro and intelligent manufacturing.

Marine Auxiliary Machinery

The history of natural science across its many disciplines, including zoology, botany, geology or

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even malacology (the study of molluscs) is often a case of truth being stranger than fiction. There are countless stirring, occasionally alarming, natural history adventure stories to be told, rollicking tales of men and women risking life and limb in the name of science and in the cause of the broadening of human knowledge. *Eaten by a Giant Clam* focuses on the work of these natural scientists in the field. It comprises 22 stories, with a focus on the heyday of natural history endeavours between the eighteenth and twentieth centuries. Each story surveys the life and career of the scientist, with the main focus being career highlights and their most striking adventures. This fascinating book ranges in content from the humorous to the tragic, from the virtually unbelievable to the inspirational.

Bioinformatics

Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles

This book highlights the challenges and potential of educational learning or industry-based training using serious games and social media platforms. In particular, the book addresses applications used in businesses and education-related organizations in Asia, where the framework and experience of serious games have been used to address specific problems in the real world. The topics that will be present in this book includes future of serious games and immersive

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technologies and their impact on society; online and mobile games; achievement systems in serious games; persuasive technology and games for saving and money management; malware analytics for social networking; serious games for mental health interventions; educational implications of social network games; learning and acquiring subject knowledge using serious games in classrooms. The target audience for this book includes scientists, engineers and practitioners involved in the field of Serious Games. The major part of this book comprises of papers that have been presented at the Serious Games and Social Connect 2012 conference held in Singapore (October 4, 2012). All the contributions have been peer reviewed and by scientific committee members with report about quality, content and originality.

World Ocean Assessment

Feminism and the Politics of Travel After the Enlightenment

"This book is aimed at researchers and practitioners involved in designing and managing complex multimedia information systems"--Provided by publisher.

High Performance Computing

General Editor: Shannon A. Brown. Based on the papers presented at an acquisition history symposium

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called "Providing the Means of War" held on 10-12 September 2001. Provides a way for the acquisition community to learn about the past and illuminate our understanding of contemporary and future issues. Looks at case histories from the Army, Navy, and Air Force, as well as from the Office of the Secretary of Defense. Shows that the acquisition process is a shared burden, with both private industry and the American government having important roles to play

Digital Enterprise and Information Systems

Diesel Generator Handbook meets the need for an authoritative reference work covering the range of mechanical and electrical topics embodied in the practical design and application of diesel generating plant. It will be particularly welcomed in many parts of the developing world where the diesel generator is basic to the electricity supply system. The discussion covers, in fifteen chapters, the prime mover, power ratings, synchronous generators, load assessment, control principles and systems, switchgear and controlgear, standby power, fuels and lubricating oils, installation and commissioning, noise reduction, and plant operation and maintenance. The book thus caters for all who are concerned with the selection, specification, testing, commissioning, operation and maintenance of diesel-based generator systems: not only the practising plant or services engineers, but also non-specialist engineers and users. The young technician or trainee engineer who is embarking on a career in the supply industry will find this handbook

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an invaluable investment. L L J Mahon, FIEE, FBIM, after an engineering apprenticeship with BTH in Rugby, gained over 30 years' experience in the design, development, manufacture, installation and commissioning of both stationary and highly specialised mobile diesel generator plant for a range of applications. An informative reference work covering the range of mechanical and electrical topics within the practical design and application of diesel generating plants Ideal for professionals concerned with diesel-based generator systems An invaluable source of information for the your technician or trainee engineer starting a career in the supply industry

Engine Service

This book is only possible through the will of God. The inspirational messages given to us at times are very evident in this story and are meant for all. God can and will work through anyone whose heart is open and whose mind is still enough to hear that gentle voice speak to them. It is then that we realize how much our heavenly Father loves each one of us and wants us all to have a close relationship with Him. My name is Elisabeth, and this is my journey with the Lord. I was given this opportunity to share a part of my life with you. Alma, my sister, is truly blessed and has accompanied me through this journey. Some of the pictures and most of the inspirational messages associated with the pictures were given to Alma for us to use in this book. The pictures are all a gift from God. For this we humbly thank Him and our Blessed

Mother, for allowing us to be a part of God's plan.

Logistics Management & Distribution Report

Taking the Enlightenment and the feminist tradition to which it gave rise as its historical and philosophical coordinates, *Feminism and the Politics of Travel After the Enlightenment* explores the coincidence of feminist vindications and travel in the late eighteenth and nineteenth centuries, the way travel's utopian dimension and feminism's utopian ideals have intermittently fed off each other in productive ways. Travel's gender politics is analyzed in the works of J.-J. Rousseau, Mary Wollstonecraft, Stéphanie-Félicité de Genlis, Germaine de Staël, Frances Burney, Flora Tristan, Suzanne Voilquin, Gustave Flaubert George Sand, Robyn Davidson, and Sara Wheeler.

Trends and Applications of Serious Gaming and Social Media

The State of Africa series project was conceived by the Africa Institute of South Africa (AISA) during its 2003--04 financial year for purposes of mapping out on a regular basis critical issue areas relating to intra- and inter-African as well as extra-African relations. The first and second volumes of the series were published in 2004 and 2008 respectively. Volume 1: *The State of Africa: Thematic and Factual Review* served as an exploratory piece and covered a broad range of issues relating to politics and governance, millennium development goals (MDGs), peace and

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conflict and regional development. Volume 2: The State of Africa: Post-Conflict Reconstruction and Development focused thematically and examined--from critical and comprehensive perspectives--issues associated with post-conflict in Africa. The volume was grounded on the continent's quest for conflict prevention, management and resolution as a means of creating an enabling environment for the consolidation of democracy and reconstruction of societies affected by crisis in general and war in particular. This volume, Volume 3: Parameters and Legacies of Governance and Issue Areas takes a multi-pronged and multi-faceted approach to some of these issues by providing in-depth analysis of dynamics at national, regional, continental and international levels. The global transformation in the 1980s and 1990s, which witnessed the crumbling of the Soviet Union, the Warsaw Pact and opened a window of opportunities for East--West bipolar rapprochement, particularly between the United States and Russia, also had impact on Africa at the national, regional and continental levels. Focusing on conceptual units, such as the state, indigenous organisations, regional and continental organisations as well as selected priority issues--in particular gender and empowerment, the global South, and space science--the chapters in the book provide useful insights into the nature and impact of the transformation and its impact on the socio-economic and politico-security situation in Africa.

Managing Multimedia Semantics

A Practical Approach to Motor Vehicle Engineering and Maintenance

* A broad range of disciplines--energy conservation and air quality issues, construction and design, and the manufacture of temperature-sensitive products and materials--is covered in this comprehensive handbook * Provide essential, up-to-date HVAC data, codes, standards, and guidelines, all conveniently located in one volume * A definitive reference source on the design, selection and operation of A/C and refrigeration systems

Diesel Engine and Fuel System Repair

To acquire content knowledge through reading, students must understand the complex components and diverse purposes of informational texts, as emphasized in the Common Core State Standards (CCSS). This practical book illuminates the ways in which a text's purpose, structure, details, connective language, and construction of themes combine to create meaning. Classroom-tested instructional recommendations and "kid-friendly" explanations guide teachers in helping students to identify and understand the role of these elements in different types of informational texts. Numerous student work samples, excerpts from exemplary books and articles, and a Study Guide with discussion questions and activities for professional learning add to the book's utility. ÿ

Unpacking Complexity in Informational Texts

This book addresses the two-stroke cycle internal combustion engine, used in compact, lightweight form in everything from motorcycles to chainsaws to outboard motors, and in large sizes for marine propulsion and power generation. It first provides an overview of the principles, characteristics, applications, and history of the two-stroke cycle engine, followed by descriptions and evaluations of various types of models that have been developed to predict aspects of two-stroke engine operation.

Vehicle Identification Number Requirements (Us National Highway Traffic Safety Administration Regulation) (Nhtsa) (2018 Edition)

Two-Stroke Cycle Engine

Introduction to Instrumentation and Measurements

Fully updated and in line with latest specifications, this textbook integrates vehicle maintenance procedures, making it the indispensable first classroom and workshop text for all students of motor vehicle engineering, apprentices and keen amateurs. Its clear, logical approach, excellent illustrations and

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step-by-step development of theory and practice make this an accessible text for students of all abilities. With this book, students have information that they can trust because it is written by an experienced practitioner and lecturer in this area. This book will provide not only the information required to understand automotive engines but also background information that allows readers to put this information into context. The book contains flowcharts, diagnostic case studies, detailed diagrams of how systems operate and overview descriptions of how systems work. All this on top of step-by-step instructions and quick reference tables. Readers won't get bored when working through this book with questions and answers that aid learning and revision included.

Commercial Carrier Journal

F & S Index United States Annual

Handbook of Air Conditioning and Refrigeration

This volume constitutes the refereed proceedings of the International Conference on Digital Enterprise and Information Systems, held in London during July 20 - 22, 2011. The 70 revised full papers presented were carefully reviewed and selected. They are organized in topical sections on cryptography and data protection, embedded systems and software, information technology management, e-business

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applications and software, critical computing and storage, distributed and parallel applications, digital management products, image processing, digital enterprises, XML-based languages, digital libraries, and data mining.

CCSP (ISC)2 Certified Cloud Security Professional Official Study Guide

This densely illustrated, hands-on guide to diesel engine maintenance, troubleshooting, and repair renders its subject more user-friendly than ever before. Finally, boatowners who grew up with gas engines can set aside their fears about tinkering with diesels, which are safer and increasingly more prevalent. As in other volumes in the International Marine Sailboat Library, every step of every procedure is illustrated, so that users can work from the illustrations alone. The troubleshooting charts in the second chapter--probably the most comprehensive ever published--are followed by system-specific chapters, allowing readers to quickly diagnose problems, then turn to the chapter with solutions. Diesel engine systems covered include: mechanical; oil; fresh- and raw-water cooling; low- and high-pressure fuel; exhaust; starting; charging; transmission and stern gear.

Forthcoming Books

Includes authors, titles, subjects.

Troubleshooting Marine Diesel Engines,

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4th Ed.

This book reports the state of the art of energy-efficient electrical motor driven system technologies, which can be used now and in the near future to achieve significant and cost-effective energy savings. It includes the recent developments in advanced electrical motor end-use devices (pumps, fans and compressors) by some of the largest manufacturers. Policies and programs to promote the large scale penetration of energy-efficient technologies and the market transformation are featured in the book, describing the experiences carried out in different parts of the world. This extensive coverage includes contributions from relevant institutions in the Europe, North America, Latin America, Africa, Asia, Australia and New Zealand.

Fleet Owner

Heavy Vehicle and Engine Resource Guide

Advanced Mechatronics and MEMS Devices II

The only official study guide for the new CCSP exam CCSP (ISC)2 Certified Cloud Security Professional Official Study Guide is your ultimate resource for the CCSP exam. As the only official study guide reviewed and endorsed by (ISC)2, this guide helps you prepare

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faster and smarter with the Sybex study tools that include pre-test assessments that show you what you know, and areas you need further review. Objective maps, exercises, and chapter review questions help you gauge your progress along the way, and the Sybex interactive online learning environment includes access to a PDF glossary, hundreds of flashcards, and two complete practice exams. Covering all CCSP domains, this book walks you through Architectural Concepts and Design Requirements, Cloud Data Security, Cloud Platform and Infrastructure Security, Cloud Application Security, Operations, and Legal and Compliance with real-world scenarios to help you apply your skills along the way. The CCSP is the latest credential from (ISC)² and the Cloud Security Alliance, designed to show employers that you have what it takes to keep their organization safe in the cloud. Learn the skills you need to be confident on exam day and beyond. Review 100% of all CCSP exam objectives Practice applying essential concepts and skills Access the industry-leading online study tool set Test your knowledge with bonus practice exams and more As organizations become increasingly reliant on cloud-based IT, the threat to data security looms larger. Employers are seeking qualified professionals with a proven cloud security skillset, and the CCSP credential brings your resume to the top of the pile. CCSP (ISC)² Certified Cloud Security Professional Official Study Guide gives you the tools and information you need to earn that certification, and apply your skills in a real-world setting.

(ISC)2 CCSP Certified Cloud Security Professional Official Practice Tests

The light-duty vehicle fleet is expected to undergo substantial technological changes over the next several decades. New powertrain designs, alternative fuels, advanced materials and significant changes to the vehicle body are being driven by increasingly stringent fuel economy and greenhouse gas emission standards. By the end of the next decade, cars and light-duty trucks will be more fuel efficient, weigh less, emit less air pollutants, have more safety features, and will be more expensive to purchase relative to current vehicles. Though the gasoline-powered spark ignition engine will continue to be the dominant powertrain configuration even through 2030, such vehicles will be equipped with advanced technologies, materials, electronics and controls, and aerodynamics. And by 2030, the deployment of alternative methods to propel and fuel vehicles and alternative modes of transportation, including autonomous vehicles, will be well underway. What are these new technologies - how will they work, and will some technologies be more effective than others? Written to inform The United States Department of Transportation's National Highway Traffic Safety Administration (NHTSA) and Environmental Protection Agency (EPA) Corporate Average Fuel Economy (CAFE) and greenhouse gas (GHG) emission standards, this new report from the National Research Council is a technical evaluation of costs, benefits, and implementation issues of fuel reduction technologies for next-generation light-duty vehicles.

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Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles estimates the cost, potential efficiency improvements, and barriers to commercial deployment of technologies that might be employed from 2020 to 2030. This report describes these promising technologies and makes recommendations for their inclusion on the list of technologies applicable for the 2017-2025 CAFE standards.

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