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Symmetry Measures on Complex Networks - Angel Garrido
2018-07-09

This book is a printed edition of the Special Issue "Symmetry Measures on Complex Networks" that was published in Symmetry

Princeton Review GED Test Prep 2021 - The Princeton The
Princeton Review 2020-05-29

The GED (General Educational Development) tests provide hundreds of thousands of people each year with the opportunity to earn the equivalent of a high school diploma-it is still by far the most popular high school accreditation test in the United States. The GED includes tests in 4 areas- Reasoning Through Language Arts, Mathematical Reasoning, Science, and Social Studies. GED Test Prep, 2021, previously titled Cracking the GED Test, includes expanded coverage to compete with market leader Kaplan. GED Test Prep continues to be fully aligned with the newest exam requirements and provides

in-depth content review for all sections of the GED, plus expert advice on manageable ways to approach and conquer the exam. Note that as of April 2018, the GED is proctored in all but the following 10 states- Indiana, New York, West Virginia (TASC-only states) Iowa, Louisiana, Maine, Missouri, Montana, New Hampshire, Tennessee (HiSET-only states)

The Emissions Gap Report 2014 - United Nations
Environment Programme 2014-03-11

The UN Environment Emissions Gap Report assesses the latest scientific studies on current and estimated future greenhouse gas emissions and compares these with the emission levels permissible for the world to progress on a least-cost pathway to achieve the goals of the Paris Agreement. This difference between "where we are likely to be and where we need to be" is known as the "emissions gap". The report explores some of the most important options available for countries to bridge

the gap.

Overcoming Barriers to Deployment of Plug-in Electric Vehicles - National Research Council 2015-06-26

In the past few years, interest in plug-in electric vehicles (PEVs) has grown. Advances in battery and other technologies, new federal standards for carbon-dioxide emissions and fuel economy, state zero-emission-vehicle requirements, and the current administration's goal of putting millions of alternative-fuel vehicles on the road have all highlighted PEVs as a transportation alternative. Consumers are also beginning to recognize the advantages of PEVs over conventional vehicles, such as lower operating costs, smoother operation, and better acceleration; the ability to fuel up at home; and zero tailpipe emissions when the vehicle operates solely on its battery. There are, however, barriers to PEV deployment, including the vehicle cost, the short all-electric driving range, the long battery charging time, uncertainties about battery life, the few choices of vehicle models, and the need for a charging infrastructure to support PEVs. What should industry do to improve the performance of PEVs and make them more attractive to consumers? At the request of Congress, *Overcoming Barriers to Deployment of Plug-in Electric Vehicles* identifies barriers to the introduction of electric vehicles and recommends ways to mitigate these barriers. This report examines the characteristics and capabilities of electric vehicle technologies, such as cost, performance, range, safety, and durability, and assesses how these factors might create barriers to widespread deployment. *Overcoming Barriers to Deployment of Plug-in Electric Vehicles* provides an overview of the current status of PEVs and makes recommendations to spur the industry and increase the attractiveness of this

promising technology for consumers. Through consideration of consumer behaviors, tax incentives, business models, incentive programs, and infrastructure needs, this book studies the state of the industry and makes recommendations to further its development and acceptance.

Illustrated Course Guide: Microsoft Excel 2013

Intermediate - Lynn Wermers 2013-12-31

Loved by students for the visual and flexible way to build computer skills, the Illustrated Course Guides are ideal for learning Microsoft Excel 2013 regardless of your experience level. Each two-page spread focuses on a single skill, making information easy to follow and absorb. The Illustrated Course Guides split Microsoft Excel 2013 concepts and skills into three manageable levels - Basic, Intermediate, and Advanced - perfect for workshops or accelerated courses. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Technologies and Approaches to Reducing the Fuel Consumption of Medium- and Heavy-Duty Vehicles -

National Research Council 2010-08-30

Technologies and Approaches to Reducing the Fuel Consumption of Medium- and Heavy-Duty Vehicles evaluates various technologies and methods that could improve the fuel economy of medium- and heavy-duty vehicles, such as tractor-trailers, transit buses, and work trucks. The book also recommends approaches that federal agencies could use to regulate these vehicles' fuel consumption. Currently there are no fuel consumption standards for such vehicles, which account for about 26 percent of the transportation fuel used in the U.S. The miles-per-gallon measure used to regulate the fuel economy of

passenger cars. is not appropriate for medium- and heavy-duty vehicles, which are designed above all to carry loads efficiently. Instead, any regulation of medium- and heavy-duty vehicles should use a metric that reflects the efficiency with which a vehicle moves goods or passengers, such as gallons per ton-mile, a unit that reflects the amount of fuel a vehicle would use to carry a ton of goods one mile. This is called load-specific fuel consumption (LSFC). The book estimates the improvements that various technologies could achieve over the next decade in seven vehicle types. For example, using advanced diesel engines in tractor-trailers could lower their fuel consumption by up to 20 percent by 2020, and improved aerodynamics could yield an 11 percent reduction. Hybrid powertrains could lower the fuel consumption of vehicles that stop frequently, such as garbage trucks and transit buses, by as much 35 percent in the same time frame.

Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles - National Research Council 2015-09-28

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. 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.

Beyond Politics - Michael P. Vandenberg 2017-12-21
Private sector action provides one of the most promising opportunities to reduce the risks of climate change, buying time while governments move slowly or even oppose climate mitigation. Starting with the insight that much of the resistance to climate mitigation is grounded in concern about the role of government, this book draws on law, policy, social science, and climate science to demonstrate how private initiatives are already bypassing government inaction in the US and around the

globe. It makes a persuasive case that private governance can reduce global carbon emissions by a billion tons per year over the next decade. Combining an examination of the growth of private climate initiatives over the last decade, a theory of why private actors are motivated to reduce emissions, and a review of viable next steps, this book speaks to scholars, business and advocacy group managers, philanthropists, policymakers, and anyone interested in climate change.

Monthly Catalog of United States Government Publications
- 1974

Sustainable Transportation Program 2016 Annual Report -

Oak Ridge National Laboratory (U S) 2017-10-05

Oak Ridge National Laboratory's (ORNL's) Sustainable Transportation Program (STP) works with government and industry to develop scientific knowledge and new technologies that accelerate the deployment of energy-efficient vehicles and intelligent, secure, and accessible transportation systems. Scientists are tackling complex challenges in transportation using comprehensive capabilities at ORNL's National Transportation Research Center and the laboratory's signature strengths in high-performance computing, neutron sciences, materials science, and advanced manufacturing. Research focuses on electrification, efficiency of combustion and emissions, data science and automated vehicles, and materials for future systems. Highlights from 2016 include: Electrification, Efficiency of combustion and emission controls, Data science and automated vehicles, and Materials for future systems. This annual report is a short summary and snapshot featuring several other accomplishments from the STP team. From motors that achieve higher power

density without rare earth materials to thought leadership on combustion as a continuum to new technologies in multimaterial joining and vehicle cybersecurity, ORNL researchers are shaping the future of transportation. Related items: Transportation & Navigation publications can be found here:

<https://bookstore.gpo.gov/catalog/transportation-navigation> Biofuels & Renewable Energy publications can be found here:

<https://bookstore.gpo.gov/catalog/biofuels-renewable-energy> Energy & Fuels publications can be found here:

<https://bookstore.gpo.gov/catalog/energy-fuels> Engineering publications can be found here:

<https://bookstore.gpo.gov/catalog/engineering>

Technology Management for Sustainable Production and Logistics - Paulina Golińska 2015-01-21

Innovative technologies provide opportunities for making manufacturing and logistics operations cleaner and more resource-efficient. New technologies focus on lifecycle engineering and lifecycle management. This book will be valuable to both academics and practitioners who wish to deepen their knowledge of technology management. The book will cover technical, organizational, financial and social issues connected to the implementation of more sustainable technologies.

Title 40 Protection of Environment Parts 425 to 699
(Revised as of July 1, 2013) - Office of The Federal

Register, Enhanced by IntraWEB, LLC 2014-07-01

40 CFR Protection of Environment

Sugarcane Biofuels - Muhammad Tahir Khan 2019-06-29

Sugarcane exhibits all the major characteristics of a promising bioenergy crop including high biomass yield, C4 photosynthetic system, perennial nature, and ratooning ability. Being the largest agricultural

commodity of the world with respect to total production, sugarcane biomass is abundantly available. Brazil has already become a sugarcane biofuels centered economy while Thailand, Colombia, and South Africa are also significantly exploiting this energy source. Other major cane producers include India, China, Pakistan, Mexico, Australia, Indonesia, and the United States. It has been projected that sugarcane biofuels will be playing extremely important role in world's energy matrix in recent future. This book analyzes the significance, applications, achievements, and future avenues of biofuels and bioenergy production from sugarcane, in top cane growing countries around the globe. Moreover, we also evaluate the barriers and areas of improvement for targeting efficient, sustainable, and cost-effective biofuels from sugarcane to meet the world's energy needs and combat the climate change.

Energy Research and Development and Small Business - United States. Congress. Senate. Select Committee on Small Business 1975

The Palgrave Handbook of the International Political Economy of Energy - Thijs Van de Graaf 2016-08-05

This Handbook is the first volume to analyse the International Political Economy, the who-gets-what-when-and-how, of global energy. Divided into five sections, it features 28 contributions that deal with energy institutions, trade, transitions, conflict and justice. The chapters span a wide range of energy technologies and markets - including oil and gas, biofuels, carbon capture and storage, nuclear, and electricity - and it cuts across the domestic-international divide. Long-standing issues in the IPE of energy such as the role of OPEC and the 'resource curse' are combined with emerging

issues such as fossil fuel subsidies and carbon markets. IPE perspectives are interwoven with insights from studies on governance, transitions, security, and political ecology. The Handbook serves as a potent reminder that energy systems are as inherently political and economic as they are technical or technological, and demonstrates that the field of IPE has much to offer to studies of the changing world of energy.

Gas Mileage Guide - 1983

The Routledge Companion to Automobile Heritage, Culture, and Preservation - Barry L. Stiefel 2019-12-13

The Routledge Companion to Automobile Heritage, Culture, and Preservation explores automotive heritage, its place in society, and the ways we might preserve and conserve it. Drawing on contributions from academics and practitioners around the world and comprising six sections, this volume carries the heritage discourse forward by exploring the complex and sometimes intricate place of automobiles within society. Taken as a whole, this book helps to shape how we think about automobile heritage and considers how that heritage explores a range of cultural, intellectual, emotional, and material elements well outside of the automobile body itself. Most importantly, perhaps, it questions how we might better acknowledge the importance of automotive heritage now and in the future. The Routledge Companion to Automobile Heritage, Culture, and Preservation is unique in that it juxtaposes theory with practice, academic approaches with practical experience, and recognizes that issues of preservation and conservation belong in a broad context. As such, this volume should be essential reading for both academics and practitioners with an interest in automobiles, cultural heritage, and

preservation.

Reducing Fuel Consumption and Greenhouse Gas Emissions of Medium- and Heavy-Duty Vehicles, Phase Two - National Academies of Sciences, Engineering, and Medicine
2020-06-15

Medium- and heavy-duty trucks, motor coaches, and transit buses - collectively, "medium- and heavy-duty vehicles", or MHDVs - are used in every sector of the economy. The fuel consumption and greenhouse gas emissions of MHDVs have become a focus of legislative and regulatory action in the past few years. This study is a follow-on to the National Research Council's 2010 report, *Technologies and Approaches to Reducing the Fuel Consumption of Medium- and Heavy-Duty Vehicles*. That report provided a series of findings and recommendations on the development of regulations for reducing fuel consumption of MHDVs. On September 15, 2011, NHTSA and EPA finalized joint Phase I rules to establish a comprehensive Heavy-Duty National Program to reduce greenhouse gas emissions and fuel consumption for on-road medium- and heavy-duty vehicles. As NHTSA and EPA began working on a second round of standards, the National Academies issued another report, *Reducing the Fuel Consumption and Greenhouse Gas Emissions of Medium- and Heavy-Duty Vehicles, Phase Two: First Report*, providing recommendations for the Phase II standards. This third and final report focuses on a possible third phase of regulations to be promulgated by these agencies in the next decade.

Electric Powertrain - John G. Hayes 2018-02-05

The why, what and how of the electric vehicle powertrain Empowers engineering professionals and students with the knowledge and skills required to engineer electric vehicle powertrain architectures, energy storage

systems, power electronics converters and electric drives. The modern electric powertrain is relatively new for the automotive industry, and engineers are challenged with designing affordable, efficient and high-performance electric powertrains as the industry undergoes a technological evolution. Co-authored by two electric vehicle (EV) engineers with decades of experience designing and putting into production all of the powertrain technologies presented, this book provides readers with the hands-on knowledge, skills and expertise they need to rise to that challenge. This four-part practical guide provides a comprehensive review of battery, hybrid and fuel cell EV systems and the associated energy sources, power electronics, machines, and drives. The first part of the book begins with a historical overview of electromobility and the related environmental impacts motivating the development of the electric powertrain. Vehicular requirements for electromechanical propulsion are then presented. Battery electric vehicles (BEV), fuel cell electric vehicles (FCEV), and conventional and hybrid electric vehicles (HEV) are then described, contrasted and compared for vehicle propulsion. The second part of the book features in-depth analysis of the electric powertrain traction machines, with a particular focus on the induction machine and the surface- and interior-permanent magnet ac machines. The brushed dc machine is also considered due to its ease of operation and understanding, and its historical place, especially as the traction machine on NASA's Mars rovers. The third part of the book features the theory and applications for the propulsion, charging, accessory, and auxiliary power electronics converters. Chapters are presented on isolated and non-isolated dc-dc converters, traction inverters, and

battery charging. The fourth part presents the introductory and applied electromagnetism required as a foundation throughout the book. • Introduces and holistically integrates the key EV powertrain technologies. • Provides a comprehensive overview of existing and emerging automotive solutions. • Provides experience-based expertise for vehicular and powertrain system and sub-system level study, design, and optimization. • Presents many examples of powertrain technologies from leading manufacturers. • Discusses the dc traction machines of the Mars rovers, the ultimate EVs from NASA. • Investigates the environmental motivating factors and impacts of electromobility. • Presents a structured university teaching stream from introductory undergraduate to postgraduate. • Includes real-world problems and assignments of use to design engineers, researchers, and students alike. • Features a companion website with numerous references, problems, solutions, and practical assignments. • Includes introductory material throughout the book for the general scientific reader. • Contains essential reading for government regulators and policy makers. Electric Powertrain: Energy Systems, Power Electronics and Drives for Hybrid, Electric and Fuel Cell Vehicles is an important professional resource for practitioners and researchers in the battery, hybrid, and fuel cell EV transportation industry. The book is a structured holistic textbook for the teaching of the fundamental theories and applications of energy sources, power electronics, and electric machines and drives to engineering undergraduate and postgraduate students. Textbook Structure and Suggested Teaching Curriculum This is primarily an engineering textbook covering the automotive powertrain, energy storage and energy

conversion, power electronics, and electrical machines. A significant additional focus is placed on the engineering design, the energy for transportation, and the related environmental impacts. This textbook is an educational tool for practicing engineers and others, such as transportation policy planners and regulators. The modern automobile is used as the vehicle upon which to base the theory and applications, which makes the book a useful educational reference for our industry colleagues, from chemists to engineers. This material is also written to be of interest to the general reader, who may have little or no interest in the power electronics and machines. Introductory science, mathematics, and an inquiring mind suffice for some chapters. The general reader can read the introduction to each of the chapters and move to the next as soon as the material gets too advanced for him or her. Part I Vehicles and Energy Sources Chapter 1 Electromobility and the Environment Chapter 2 Vehicle Dynamics Chapter 3 Batteries Chapter 4 Fuel Cells Chapter 5 Conventional and Hybrid Powertrains Part II Electrical Machines Chapter 6 Introduction to Traction Machines Chapter 7 The Brushed DC Machine Chapter 8 Induction Machines Chapter 9 Surface-permanent-magnet AC Machines Chapter 10: Interior-permanent-magnet AC Machines Part III Power Electronics Chapter 11 DC-DC Converters Chapter 12 Isolated DC-DC Converters Chapter 13 Traction Drives and Three-phase Inverters Chapter 14 Battery Charging Chapter 15 Control of the Electric Drive Part IV Basics Chapter 16 Introduction to Electromagnetism, Ferromagnetism, and Electromechanical Energy Conversion The first third of the book (Chapters 1 to 6), plus parts of Chapters 14 and 16, can be taught to the general science or engineering student in the second or

third year. It covers the introductory automotive material using basic concepts from mechanical, electrical, environmental, and electrochemical engineering. Chapter 14 on electrical charging and Chapter 16 on electromagnetism can also be used as a general introduction to electrical engineering. The basics of electromagnetism, ferromagnetism and electromechanical energy conversion (Chapter 16) and dc machines (Chapter 7) can be taught to second year (sophomore) engineering students who have completed introductory electrical circuits and physics. The third year (junior) students typically have covered ac circuit analysis, and so they can cover ac machines, such as the induction machine (Chapter 8) and the surface permanent-magnet ac machine (Chapter 9). As the students typically have studied control theory, they can investigate the control of the speed and torque loops of the motor drive (Chapter 15). Power electronics, featuring non-isolated buck and boost converters (Chapter 11), can also be introduced in the third year. The final-year (senior) students can then go on to cover the more advanced technologies of the interior-permanent-magnet ac machine (Chapter 10). Isolated power converters (Chapter 12), such as the full-bridge and resonant converters, inverters (Chapter 13), and power-factor-corrected battery chargers (Chapter 14), are covered in the power electronics section. This material can also be covered at the introductory postgraduate level. Various homework, simulation, and research exercises are presented throughout the textbook. The reader is encouraged to attempt these exercises as part of the learning experience. Instructors are encouraged to contact the author, John Hayes, direct to discuss course content or structure.

The Dental Hygienist's Guide to Nutritional Care E-Book
- Cynthia A. Stegeman 2018-03-01

Learn how to apply nutritional principles to promote optimal patient care! The Dental Hygienist's Guide to Nutritional Care, 5th Edition explains how teaching proper nutrition can improve your clients' oral and systemic health. Case studies and clear, full-color photos and illustrations provide a basis for assessing, diagnosing, planning, implementing, and evaluating the care of patients. In addition, a solid foundation in nutrition prepares you for the subject's increased emphasis on the NBDHE examination. Written by an interdisciplinary author team with expertise in nutrition and dental hygiene, this book was the first nutritional guide designed specifically for dental hygienists! UNIQUE! Biochemistry chapter covers the essential concepts tested on the National Board Dental Hygiene Examination (NBDHE). UNIQUE! Coverage of vitamins and minerals is based on the oral effects of micronutrients. Clinically relevant applications to dental hygiene include a focus on patient education and dental hygiene considerations in each chapter. Case studies and Health Applications demonstrate how nutrition concepts can be applied to specific patient situations. Learning features include pretests and key terms highlighted in each chapter, with definitions in the glossary. Practice quizzes online allow you to test your comprehension, and include feedback and remediation for incorrect answers. NEW! Updated content addresses interdisciplinary practice and the FDA's Food Safety Modernization Act, with expanded coverage of older adults, vitamin D, and nutrigenomics. NEW! Coverage of the latest federal nutrition standards includes the Dietary Guidelines for Americans, the Nutrition Facts

label, and more. NEW! UPDATED full-color illustrations include additional clinical photos as well as food-source photos in the micronutrient chapters.

Alternative Fuels and Advanced Vehicle Technologies for Improved Environmental Performance - Richard Folkson
2014-03-19

Most vehicles run on fossil fuels, and this presents a major emissions problem as demand for fuel continues to increase. *Alternative Fuels and Advanced Vehicle Technologies* gives an overview of key developments in advanced fuels and vehicle technologies to improve the energy efficiency and environmental impact of the automotive sector. Part I considers the role of alternative fuels such as electricity, alcohol, and hydrogen fuel cells, as well as advanced additives and oils, in environmentally sustainable transport. Part II explores methods of revising engine and vehicle design to improve environmental performance and fuel economy. It contains chapters on improvements in design, aerodynamics, combustion, and transmission. Finally, Part III outlines developments in electric and hybrid vehicle technologies, and provides an overview of the benefits and limitations of these vehicles in terms of their environmental impact, safety, cost, and design practicalities. *Alternative Fuels and Advanced Vehicle Technologies* is a standard reference for professionals, engineers, and researchers in the automotive sector, as well as vehicle manufacturers, fuel system developers, and academics with an interest in this field. Provides a broad-ranging review of recent research into advanced fuels and vehicle technologies that will be instrumental in improving the energy efficiency and environmental impact of the automotive sector. Reviews the development of alternative fuels, more efficient engines, and

powertrain technologies, as well as hybrid and electric vehicle technologies

Advances in Visualization and Optimization Techniques for Multidisciplinary Research - Dean Vucinic 2019-09-27

This volume presents several multidisciplinary approaches to the visual representation of data acquired from experiments. As an expansion of these approaches, it is also possible to include data examination generated by mathematical-physical modeling. Imaging Systems encompass any subject related to digital images, from fundamental requirements for a correct image acquisition to computational algorithms that make it possible to obtain relevant information for image analysis. In this context, the book presents selected contributions of a special session at the Conference on Advanced Computational Engineering and Experimenting (ACE-X) 2016.

Urban Informatics and Future Cities - S. C. M. Geertman
2021-07-15

This book forms a selection of chapters submitted for the CUPUM (Computational Urban Planning and Urban Management) conference, held in the second week of June 2021 at Aalto University in Helsinki, Finland. Chapters were selected from a double-blind review process by the conference's scientific committee. The chapters in the book cover developments and applications with big data and urban analytics, collaborative urban planning, applications of geodesign and innovations, and planning support science.

Energy Law, Climate Change and the Environment - Martha M. Roggenkamp 2021-05-21

This comprehensive volume of the Elgar Encyclopedia of Environmental Law provides an overview of the major elements of energy law from a global perspective. Based

on an in-depth analysis of the energy chain, it offers insight into the impacts of climate change and environmental issues on energy law and the energy sector. This timely reference work highlights the need for modern energy law to consider environmental impacts and promote the use of clean energy sources, whilst also safeguarding a reliable and affordable energy supply.

Pattern Recognition and Image Analysis - Roberto Paredes 2015-06-09

This book constitutes the proceedings of the 7th Iberian Conference on Pattern Recognition and Image Analysis, IbPRIA 2015, held in Santiago de Compostela, Spain, in June 2015. The 83 papers presented in this volume were carefully reviewed and selected from 141 submissions.

They were organized in topical sections named: Pattern Recognition and Machine Learning; Computer Vision; Image and Signal Processing; Applications; Medical Image; Pattern Recognition and Machine Learning; Computer Vision; Image and Signal Processing; and Applications

Impacts of climate change on fisheries and aquaculture - Food and Agriculture Organization of the United Nations 2019-01-06

This report indicates that climate change will significantly affect the availability and trade of fish products, especially for those countries most dependent on the sector, and calls for effective adaptation and mitigation actions encompassing food production.

1977 Gas Mileage Guide - United States. Environmental Protection Agency 1976

Pavement Life-Cycle Assessment - Imad L. Al-Qadi 2017-04-11

An increasing number of agencies, academic institutes, and governmental and industrial bodies are embracing the

principles of sustainability in managing their activities and conducting business. Pavement Life-Cycle Assessment contains contributions to the Pavement Life-Cycle Assessment Symposium 2017 (Champaign, IL, USA, 12-13 April 2017) and discusses the current status of as well as future developments for LCA implementation in project- and network-level applications. The papers cover a wide variety of topics: - Recent developments for the regional inventory databases for materials, construction, and maintenance and rehabilitation life-cycle stages and critical challenges - Review of methodological choices and impact on LCA results - Use of LCA in decision making for project selection - Implementation of case studies and lessons learned: agency perspectives - Integration of LCA into pavement management systems (PMS) - Project-level LCA implementation case studies - Network-level LCA applications and critical challenges - Use-phase rolling resistance models and field validation - Uncertainty assessment in all life-cycle stages - Role of PCR and EPDs in the implementation of LCA Pavement Life-Cycle Assessment will be of interest to academics, professionals, and policymakers involved or interested in Highway and Airport Pavements.

The Political Economy of Clean Energy Transitions - Douglas Jay Arent 2017

A volume on the political economy of clean energy transition in developed and developing regions, with a focus on the issues that different countries face as they transition from fossil fuels to lower carbon technologies.

Lemon-Aid New and Used Cars and Trucks 1990–2016 - Phil Edmonston 2015-11-21

This book steers buyers through the the confusion and

anxiety of new and used vehicle purchases unlike any other car-and-truck book on the market. "Dr. Phil," Canada's best-known automotive expert for more than forty-five years, pulls no punches.

International Energy Outlook - 1986

1981 Gas Mileage Guide - 1981

Used Car Buying Guide 2007 - Consumer Reports 2007-01-09
Features recommendations and ratings on hundreds of small, medium, and large-sized cars based on quality, economy, performance, and comfort standards, with judgments on crash protection, and assessments of available options

Code of Federal Regulations - 2014

Special edition of the Federal Register, containing a codification of documents of general applicability and future effect ... with ancillaries.

Transportation Energy Data Book - 2005

Encyclopedia of Renewable and Sustainable Materials - 2020-01-09

Encyclopedia of Renewable and Sustainable Materials provides a comprehensive overview, covering research and development on all aspects of renewable, recyclable and sustainable materials. The use of renewable and sustainable materials in building construction, the automotive sector, energy, textiles and others can create markets for agricultural products and additional revenue streams for farmers, as well as significantly reduce carbon dioxide (CO2) emissions, manufacturing energy requirements, manufacturing costs and waste. This book provides researchers, students and professionals in materials science and engineering with tactics and

information as they face increasingly complex challenges around the development, selection and use of construction and manufacturing materials. Covers a broad range of topics not available elsewhere in one resource Arranged thematically for ease of navigation Discusses key features on processing, use, application and the environmental benefits of renewable and sustainable materials Contains a special focus on sustainability that will lead to the reduction of carbon emissions and enhance protection of the natural environment with regard to sustainable materials

Capital in the Twenty-First Century - Thomas Piketty
2017-08-14

What are the grand dynamics that drive the accumulation and distribution of capital? Questions about the long-term evolution of inequality, the concentration of wealth, and the prospects for economic growth lie at the heart of political economy. But satisfactory answers have been hard to find for lack of adequate data and clear guiding theories. In this work the author analyzes a unique collection of data from twenty countries, ranging as far back as the eighteenth century, to uncover key economic and social patterns. His findings transform debate and set the agenda for the next generation of thought about wealth and inequality. He shows that modern economic growth and the diffusion of knowledge have allowed us to avoid inequalities on the apocalyptic scale predicted by Karl Marx. But we have not modified the deep structures of capital and inequality as much as we thought in the optimistic decades following World War II. The main driver of inequality--the tendency of returns on capital to exceed the rate of economic growth--today threatens to generate extreme inequalities that stir discontent and undermine

democratic values if political action is not taken. But economic trends are not acts of God. Political action has curbed dangerous inequalities in the past, the author says, and may do so again. This original work reorients our understanding of economic history and confronts us with sobering lessons for today.

Chinese Standard. GB; GB/T; GBT; JB; JB/T; YY; HJ; NB; HG; QC; SL; SN; SH; JJF; JJG; CJ; TB; YD; YS; NY; FZ; JG; QB; SJ; SY; DL; AQ; CB; GY; JC; JR; JT -

<https://www.chinesestandard.net> 2018-01-01

This document provides the comprehensive list of Chinese National Standards and Industry Standards (Total 17,000 standards).

Miscellaneous Product Catalog. Translated English of Chinese Standard. (MT; MT/T; MTT) -

<https://www.chinesestandard.net> 2018-01-01

This document provides the comprehensive list of Chinese Industry Standards - Category: MT; MT/T; MTT.

Making climate-sensitive investments in agriculture -

Food and Agriculture Organization of the United Nations
2021-02-04

Climate change is a major challenge for agriculture, a vital source of food, income and employment for most of the world's poor. Agricultural investments, as a result, need to become more climate sensitive. This is as true for general agricultural investments focused on development outcomes as for projects specifically addressing climate change adaptation and mitigation. This comprehensive knowledge product provides investment practitioners with practical reference material on integrating climate risk considerations at all stages of the investment project cycle, from design to implementation, monitoring and evaluation. Produced by multidisciplinary teams across FAO, the knowledge product is organized as a compendium of modules and thematic sections. It builds on a 2012 FAO guidance document and draws on the most recent information and data sources, including the latest Intergovernmental Panel on Climate Change (IPCC) reports. It also showcases FAO-developed tools, tested approaches and selected experiences, and discusses climate financing opportunities for agriculture.