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Insight into Nuclear, Renewable, and Non-Renewable Energies
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Advanced Smaller Modular Reactors
Final Report
Pipeline Engineering (2004)
Introduction to Energy, Renewable Energy and Electrical Engineering
2017 CFR Annual Print Title 40 Protection of Environment - Part 52 (52.01 to 52.1018
An Innovative Design Approach

DEVIN CUMMINGS

Gas Turbine Engineering Handbook
Asian Development Bank
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.
1985-1999 Academic Press
This book discusses advanced Small Modular Reactors (SMRs) as a way to provide safe, clean, and affordable nuclear power options. The advanced SMRs currently under development in the U.S. represent a variety of sizes, technology options and deployment scenarios. These advanced reactors, envisioned to vary in size from a couple megawatts up to hundreds of megawatts can be used for power generation, process heat, desalination, or other industrial uses. In-depth chapters describe how advanced SMRs offer multiple advantages, such as relatively small size, reduced capital investment, location flexibility, and provisions for incremental power additions. SMRs also offer distinct safeguards, security and nonproliferation advantages. The authors present a thorough examination of the technology and defend methods by which the new generation of nuclear

power plants known as GEN-IV can safely be used as an efficient source of renewable energy. Provides a unique and innovative approach to the implementation of Small Modular Reactor as part of GEN-IV technology; Discusses how Small Modular Reactors (SMRs) can deliver a viable alternative to Nuclear Power Plants (NPPs); Presents an argument defending the need for nuclear power plant as a source of energy, its efficiency and cost effectiveness, as well as safety related issues.

Insight into Nuclear, Renewable, and Non-Renewable Energies CRC Press This revised text covers the fundamentals of thermodynamics required to understand electrical power generation systems and the application of these principles to nuclear reactor power plant systems. The book begins with fundamental definitions of units and dimensions, thermodynamic variables and the Laws of Thermodynamics progressing to sections on specific applications of the Brayton and Rankine cycles for power generation and projected reactor systems design issues. It is not a traditional general thermodynamics text, per se, but a practical thermodynamics volume intended to explain the fundamentals and apply them to the challenges facing actual nuclear power plants systems, where thermal hydraulics comes to play. There have been significant new findings for intercooled systems since the previous edition published and they will be included in this volume. New

technology plans for using a Nuclear Air-Brayton as a storage system for a low carbon grid are presented along with updated component sizes and performance criteria for Small Modular Reactors. Written in a lucid, straight-forward style while retaining scientific rigor, the content is accessible to upper division undergraduate students and aimed at practicing engineers in nuclear power facilities and engineering scientists and technicians in industry, academic research groups, and national laboratories. The book is also a valuable resource for students and faculty in various engineering programs concerned with nuclear reactors.

Mechanisms and Dynamics of Ultra-lean Combustion Springer

2017 CFR Annual Print Title 46 Shipping Parts 90 to 139IntraWEB, LLC and Claitor's Law PublishingIntroduction to Energy EssentialsInsight into Nuclear, Renewable, and Non-Renewable EnergiesAcademic Press

(with complimentary CD) John Wiley & Sons

The Philippines currently has a low level of per capita greenhouse gas emissions. However, emission levels are growing at an increasing rate, with 4% annual growth between 2006 and 2012. The country's energy system is becoming more carbon intensive to satisfy escalating energy demand caused by strong economic growth. This study assesses how the Philippines can take a low-carbon pathway by drawing on detailed modeling of the power, residential, and transport sectors. It

identifies low-carbon development options that can be deployed at approximately zero net cost to reduce energy sector greenhouse gas emissions by 70% by 2050. With energy use levels still low, the country has an opportunity to follow a low-carbon development trajectory—if action is taken soon.

Statistical Abstract of the U.S. 2012

Academic Press

The Gas Turbine Engineering Handbook has been the standard for engineers involved in the design, selection, and operation of gas turbines. This revision includes new case histories, the latest techniques, and new designs to comply with recently passed legislation. By keeping the book up to date with new, emerging topics, Boyce ensures that this book will remain the standard and most widely used book in this field. The new Third Edition of the Gas Turbine Engineering Hand Book updates the book to cover the new generation of Advanced gas Turbines. It examines the benefit and some of the major problems that have been encountered by these new turbines. The book keeps abreast of the environmental changes and the industries answer to these new regulations. A new chapter on case histories has been added to enable the engineer in the field to keep abreast of problems that are being encountered and the solutions that have resulted in solving them. Comprehensive treatment of Gas Turbines from Design to Operation and Maintenance. In depth treatment of Compressors with emphasis on surge, rotating stall, and choke;

Combustors with emphasis on Dry Low NOx Combustors; and Turbines with emphasis on Metallurgy and new cooling schemes. An excellent introductory book for the student and field engineers A special maintenance section dealing with the advanced gas turbines, and special diagnostic charts have been provided that will enable the reader to troubleshoot problems he encounters in the field The third edition consists of many Case Histories of Gas Turbine problems. This should enable the field engineer to avoid some of these same generic problems

Applications, Technologies and Environmental Sustainability Springer Nature

This book describes the fast reactor (FR), a type of new reactor for nuclear plants, currently under research and development. The book targets young researchers and engineers who will be charged with commercializing this new type of reactor to lead to the development of new components and systems for improved plant reliability and economy. This volume also helps readers to understand the methods of integrating the power plant in its entirety, from the reactor core to all of the various systems and components, and teaches the way of thinking that forms the background of these methods. This background includes the various organizational and management issues that are encountered as projects move forward and will be explored in great detail based on actual design and construction experience with Japan’s

prototype FR, Monju.

The Systems Engineering Vision for Industrial Application CRC Press

Biojet fuels have the potential to make an important contribution towards decarbonising the aviation sector. Biojet Fuel in Aviation Applications: Production, Usage and Impact of Biofuels covers all aspects of this sustainable aviation fuel including aviation biofuel public policies, production technologies, physico-chemical properties, combustion performances, techno-economics of sustainable fuel production, sustainability and energywater-food (EWF) nexus. This must-have book also charts the current state of the industry by discussing the relevant industry players who are currently producing alternative aviation fuels and flight tests, while also providing a glimpse of the future of the industry. This comprehensive book is written for undergraduate students, postgraduate students, researchers, engineers and policy makers wanting to build up knowledge in the specific area of biojet fuel or the broader fields of sustainable energy and aeronautics. Reviews major aviation and biojet fuel policies, legislations, initiatives and roadmaps around the world Features existing and emerging biojet fuel production pathways from various feedstocks Highlights the key properties of biojet fuels that ensures inter-operability with conventional jet aviation fuel Discusses the economic aspects of the biojet fuel industry and the barriers preventing its commercialisation Examines the

sustainability of biojet fuel from a life cycle assessment, energy balance and EWF nexus point of views

Fundamentals of Engineering Economic Analysis IntraWEB, LLC and Claitor's Law Publishing

A great resource for beginner students and professionals alike Introduction to Energy, Renewable Energy and Electrical Engineering: Essentials for Engineering Science (STEM) Professionals and Students brings together the fundamentals of Carnot’s laws of thermodynamics, Coulomb’s law, electric circuit theory, and semiconductor technology. The book is the perfect introduction to energy-related fields for undergraduates and non-electrical engineering students and professionals with knowledge of Calculus III. Its unique combination of foundational concepts and advanced applications delivered with focused examples serves to leave the reader with a practical and comprehensive overview of the subject. The book includes: A combination of analytical and software solutions in order to relate aspects of electric circuits at an accessible level A thorough description of compensation of flux weakening (CFW) applied to inverter-fed, variable-speed drives not seen anywhere else in the literature Numerous application examples of solutions using PSPICE, Mathematica, and finite difference/finite element solutions such as detailed magnetic flux distributions Manufacturing of electric energy in power systems with integrated renewable energy sources where three-

phase inverter supply energy to interconnected, smart power systems Connecting the energy-related technology and application discussions with urgent issues of energy conservation and renewable energy—such as photovoltaics and ground-water heat pump resulting in a zero-emissions dwelling—Introduction to Energy, Renewable Energy, and Electrical Engineering crafts a truly modern and relevant approach to its subject matter.

TERI Energy & Environment Data Diary and Yearbook (TEDDY) 2017/18 2017 CFR Annual Print Title 46 Shipping Parts 90 to 139

The latest developments in the field of hybrid electric vehicles Hybrid Electric Vehicles provides an introduction to hybrid vehicles, which include purely electric, hybrid electric, hybrid hydraulic, fuel cell vehicles, plug-in hybrid electric, and off-road hybrid vehicular systems. It focuses on the power and propulsion systems for these vehicles, including issues related to power and energy management. Other topics covered include hybrid vs. pure electric, HEV system architecture (including plug-in & charging control and hydraulic), off-road and other industrial utility vehicles, safety and EMC, storage technologies, vehicular power and energy management, diagnostics and prognostics, and electromechanical vibration issues. Hybrid Electric Vehicles, Second Edition is a comprehensively updated new edition with four new chapters covering recent advances in

hybrid vehicle technology. New areas covered include battery modelling, charger design, and wireless charging. Substantial details have also been included on the architecture of hybrid excavators in the chapter related to special hybrid vehicles. Also included is a chapter providing an overview of hybrid vehicle technology, which offers a perspective on the current debate on sustainability and the environmental impact of hybrid and electric vehicle technology. Completely updated with new chapters Covers recent developments, breakthroughs, and technologies, including new drive topologies Explains HEV fundamentals and applications Offers a holistic perspective on vehicle electrification Hybrid Electric Vehicles: Principles and Applications with Practical Perspectives, Second Edition is a great resource for researchers and practitioners in the automotive industry, as well as for graduate students in automotive engineering.

An Innovative Approach to Nuclear Power World Bank Publications

Sharjah is well known, not only for its heritage sites, culturally rich sites, and vivid modern quarters, but also for its promising business environment and high level of human talent, with all the resources needed to make the next leap. Thanks to the great efforts of its leaders, Emirati students have access to world-class level universities, are fluent in several languages, and possess a broad, international outlook that can serve any business format. The Business Year's

country-specific publications, sometimes featuring over 150 face-to-face interviews, are among the most comprehensive annual economic publications available internationally. This 118-page publication covers finance, investment, energy, green economy, IT and media, industry, transport, construction, real estate, health, education, and tourism.

Aircraft Propulsion and Gas Turbine Engines Butterworth-Heinemann

Energy managers need to learn new and diverse ways to approach energy management in their company's assets as technology continues to evolve. Built into one cohesive and fundamental resource, Introduction to Energy Essentials: Insight into Nuclear, Renewable, and Non-Renewable Energies delivers an informative tool to understand the main steps for introducing and maintaining an energy management system (EnMS). Starting with a high-level introduction, the reference then takes a structured approach and dives into different sources of energy along with their contribution to energy efficiency, focusing on nuclear power, renewable and non-renewable energies. Multiple options are further discussed including economic considerations and cost comparisons per energy source, energy storage technology, and how to introduce an energy management system into your company. More advanced topics include nuclear reactor power plant systems and their thermal hydraulic analysis as well as cyber

resiliency for future electric power and well plant control systems. Authored by experts, Introduction to Energy Essentials: Insight into Nuclear, Renewable, and Non-Renewable Energies gives today’s energy managers and engineers a solid starting point to meeting the energy demands of today and in the future. Understand key concepts, techniques, and tools surrounding energy management Learn how to include smarter energy efficiency in your daily management decisions Gain the fundamental technical skills and knowledge on renewable and non-renewable energy systems

Physics of Turbulent Jet Ignition Springer-Verlag

Over a decade ago the World Petroleum Council launched an initiative to hold an international professional youth forum. The first forum took place in October 2004 in China, and had as its motto: "Young people and innovations are the future of the oil industry." It was the first major event in the history of the WPC in which young professionals and academics had the leading role, and had the opportunity to exchange their ideas in insights on the oil and gas industry with industry leaders and main representatives of the oil and gas industry. Since then, issues of professional development and the disclosure of the creative potential of young industry professionals have been on the agenda of the World Petroleum Council as one of the key areas for the development of international cooperation focused on a strategic

perspective. The Future Leaders Forum of the World Petroleum Council VI is the largest international platform for professional communication of young specialists in the oil and gas industry. The contributions in this book are much of interest to professionals and scientists interested or involved in the oil and gas industry or related areas.

Pounder's Marine Diesel Engines and Gas Turbines John Wiley & Sons

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

Pathways to Low-Carbon Development for the Philippines IntraWEB, LLC and Claitor's Law Publishing

This book discusses the expertise, skills, and techniques needed for the development of new materials and technologies. It focuses on finite element and finite volume methods that are used for engineering simulations, and present many state-of-the-art applications and advances to highlight these methods' importance. For example, modern joining technologies can be used to fabricate new compound or composite materials, even those formed from dissimilar component materials. These composite materials are often exposed to harsh environments, must deliver specific characteristics, and are primarily used in automotive and marine technologies, i.e., ships, amphibious vehicles, docks, offshore structures, and even robots. To achieve the desired material performance, computer-based engineering tools are widely used for

simulation, data evaluation, and design processes.

Youth Technical Sessions Proceedings

The Energy and Resources Institute (TERI)

Pipeline engineering has struggled to develop as a single field of study due to the wide range of industries and government organizations using different types of pipelines for all types of solids, liquids, and gases. This fragmentation has impeded professional development, job mobility, technology transfer, the diffusion of knowledge, and the movement of manpower. No single, authoritative course or book has existed to unite practitioners. In response, Pipeline Engineering covers the essential aspects and types of pipeline engineering in a single volume. This work is divided into two parts. Part I, Pipe Flows, delivers an integrated treatment of all variants of pipe flow including incompressible and compressible, Newtonian and non-Newtonian, slurry and multiphase flows, capsule flows, and pneumatic transport of solids. Part II, Engineering Considerations, summarizes the equipment and methods required for successful planning, design, construction, operation, and maintenance of pipelines. By addressing the fundamentals of pipeline engineering-concepts, theories, equations, and facts-this groundbreaking text identifies the cornerstones of the discipline, providing engineers with a springboard to success in the field. It is a must-read for all pipeline engineers.

Principles and Applications with Practical Perspectives Census Bureau June 29-30, 2017 Madrid, Spain Key Topics : Biomass feed stocks for renewable energy generation, Bioenergy Conversion, Bioenergy Transition, Processes for Bioenergy, Bioenergy Applications, Biogas, Biodiesel, Renewable Energy, Biomass, Biofuels, Bioethanol, Biomass Technology, Bioenergy Companies and Market, Translating the Paris Agreement into Action in the Pacific John Wiley & Sons This Handbook is the first volume to comprehensively analyse and problem-solve how to manage the decline of fossil fuels as the world tackles climate change and shifts towards a low-carbon energy transition. The overall findings are straight-forward and unsurprising: although fossil fuels have powered the industrialisation of many nations and improved the lives of hundreds of millions of people, another century dominated by fossil fuels would be disastrous. Fossil fuels and associated greenhouse gas emissions must be reduced to a level that avoids rising temperatures and rising risks in support of a just and sustainable energy transition. Divided into four sections and 25 contributions from global leading experts, the chapters span a wide range of energy technologies and sources including fossil fuels, carbon mitigation options, renewables, low carbon energy, energy storage, electric vehicles and energy sectors (electricity, heat and transport). They cover varied legal jurisdictions and multiple governance

approaches encompassing multi- and inter-disciplinary technological, environmental, social, economic, political, legal and policy perspectives with timely case studies from Africa, Asia, Australia, Europe, North America, South America and the Pacific. Providing an insightful contribution to the literature and a much-needed synthesis of the field as a whole, this book will have great appeal to decision makers, practitioners, students and scholars in the field of energy transition studies seeking a comprehensive understanding of the opportunities and challenges in managing the decline of fossil fuels.

Code of Federal Regulations

IntraWEB, LLC and Claitor's Law Publishing

Advanced Biofuels: Applications, Technologies, and Environmental Sustainability presents recent developments and applications of biofuels in the field of internal combustion engines, with a primary focus on the recent approaches of biodiesel applications, low emission alternative fuels, and environmental sustainability. Editors Dr. Azad and Dr. Rasul, along with their team of expert contributors, combine a collection of extensive experimental investigations on engine performance and emissions and combustion phenomena using different types of oxygenated fuel with in-depth research on fuel applications, an analysis of available technologies and resources, energy efficiency improvement methods, and applications of oxygenated fuel for the sustainable environment.

Academics, researchers, engineers and technologists will develop a greater understanding of the relevant concepts and solutions to the global issues related to achieving alternative energy application for future energy security, as well as environmental sustainability in medium and large-scale industries. Fills a gap in the literature on alternative fuel applications with in-depth research and experimental investigations of different approaches, technologies and applications Considers the important issue of sustainability using case studies to deepen understanding Includes energy security within various industries, including aviation and transport

International Economics Woodhead Publishing

The second edition of this book includes the most up-to-date details on the advantages of Nuclear Air-Brayton Power Plant Cycles for advanced reactors. It demonstrates significant advantages for typical sodium cooled reactors and describes how these advantages will grow as higher temperature systems (molten salts) are developed. It also describes how a Nuclear Air-Brayton system can be integrated with significant renewable (solar and wind) energy systems to build a low carbon grid. Starting with basic principles of thermodynamics as applied to power plant systems, it moves on to describe several types of Nuclear Air-Brayton systems that can be employed to meet different requirements. It provides estimates of component sizes and performance criteria for Small Modular

Reactors (SMR). This book has been revised to include updated tables and significant new results that have become available for intercooled systems in the time since the previous edition published. In this edition also, the steam tables have been updated and Chapters 9 and 10 have been rewritten to keep up with the most up-to- date technology and current research.

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