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The energy market is in the midst of a monumental shift toward cleaner fuel sources. Companies in the sector will need to invest



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3 Energy Stocks with High-Yield Dividends That Should Survive the Clean Energy Transition

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This book presents the fundamentals needed to understand the physical and chemical properties of alternative fuels, and how they impact refueling system design and the modification of existing garages for safety. It covers a wide range of fuels including alcohols, gases, and vegetable oils.

Exploring how to counteract the world's energy insecurity and environmental pollution, this volume covers the production methods, properties, storage, engine tests, system modification, transportation and distribution, economics, safety aspects, applications, and material compatibility of alternative fuels. The esteemed editor highlights the importance of moving toward alternative fuels and the problems and

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environmental impact of depending on petroleum products. Each self-contained chapter focuses on a particular fuel source, including vegetable oils, biodiesel, methanol, ethanol, dimethyl ether, liquefied petroleum gas, natural gas, hydrogen, electric, fuel cells, and fuel from nonfood crops.

Fuel Property Estimation and Combustion Process Characterization is a thorough tool book, which provides readers with the most up-to-date, valuable methodologies to efficiently and cost-effectively attain useful properties of all types of fuels and achieve combustion process characterizations for more efficient design and better operation. Through extensive experience in fuels and combustion, Kiang has developed equations and methodologies that can readily obtain reasonable properties for all types of fuels (including wastes and

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biomass), which enable him to provide guidance for designers and operators in the combustion field, in order to ensure the design, operation, and diagnostics of all types of combustion systems are of the highest quality and run at optimum efficiency. Written for professionals and researchers in the renewable energy, combustion, chemical, and mechanical engineering fields, the information in this book will equip readers with detailed guidance on how to reliably obtain properties of fuels quickly for the design, operation and diagnostics of combustion systems to achieve highly efficient combustion processes. Presents models for quick estimation of fuel properties without going through elaborate, costly and time consuming sampling and laboratory testing Offers methodologies to determine combustion process characteristics for designing and deploying combustion systems Examines the fundamentals of

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combustion applied to energy systems, including thermodynamics of traditional and alternative fuels combustion Presents a fuel property database for over 1400 fuels Includes descriptive application of big data technology, using dual properties analysis as an example Provides specific technical solutions for combustion, fuels and waste processing

A guidebook that contains information about EPA's alternative fuels regulations for fleets, flexible fuel vehicles, E85 properties and specifications, and E85 handling and storage guidelines.

Aviation Fuels provides up-to-date data on fuel effects on combustion performance and use of alternative fuels in aircraft. This book covers the latest advances on aviation fuel technologies, including alternative fuels, feedstocks and manufacturing processes, combustion

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performance, chemical modeling, fuel systems compatibility and the technical and environmental challenges for implementing the use of alternative fuels for aviation. Aviation fuel and combustion researchers, academics, and program managers for aviation technologies will value this comprehensive overview and summary on the present status of aviation fuels. Presents an overview on all relevant fields of aviation fuels, including production, approval, fuel systems compatibility and combustion (including emissions) Discusses the environmental impacts and carbon footprint of alternative fuels Features a chapter on electric flight and hydrogen powered aircraft and how its implementation will impact the aviation industry

The only source that focuses exclusively on engineering and technology, this important guide maps the dynamic and changing field



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of information sources published for engineers in recent years. Lord highlights basic perspectives, access tools, and English-language resources--directories, encyclopedias, yearbooks, dictionaries, databases, indexes, libraries, buyer's guides, Internet resources, and more. Substantial emphasis is placed on digital resources. The author also discusses how engineers and scientists use information, the culture and generation of scientific information, different types of engineering information, and the tools and resources you need to locate and access that material. Other sections describe regulations, standards and specifications, government resources, professional and trade associations, and education and career resources. Engineers, scientists, librarians, and other information professionals working with engineering and technology information will welcome this research

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Exploring how to counteract the world's energy insecurity and environmental pollution, this volume covers the production methods, properties, storage, engine tests, system modification, transportation and distribution, economics, safety aspects, applications, and material compatibility of alternative fuels. The esteemed editor highlights the importance of moving toward alternative fuels and the problems and environmental impact of depending on petroleum products. Each self-contained chapter focuses on a particular fuel source, including vegetable oils, biodiesel, methanol, ethanol, dimethyl ether, liquefied petroleum gas, natural gas, hydrogen, electric, fuel cells, and fuel from nonfood crops.

This book presents an analysis of the results of studies of motor fuels ageing, conducted in laboratory and model conditions, in terms of

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building a system operating on-line, allowing continuous assessment of the operational usability of gasoline and diesel fuels, including those containing the addition of ethanol and FAME, respectively. This research was carried out in the framework of the project: "A system for the continuous control of the degree and rate of the liquid fuels ageing process during storage, which received co-funding from the European Regional Development Fund under the Operational Programme "Innovative Economy". The book presents an evaluation of the impact of fuel production processes on its stability and an analysis of changes in normative parameters of fuels during their storage and use. The book presents also the results of tests on the corrosive effects of fuels during storage processes. This project was co-financed by the European Regional Development Fund under the Operational Programme "Innovative Economy".

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From Methane to Hydrogen-Making the Switch to a Cleaner Fuel Source The world's overdependence on fossil fuels has created environmental problems, such as air pollution and global warming, as well as political and economic unrest. With water as its only by-product and its availability in all parts of the world, hydrogen promises to be the next grea

Examines all stages of fuel production, from feedstocks to finished products Exploring chemical structures and properties, this book sheds new light on the current science and technology of producing energy efficient and environmentally friendly fuels. Moreover, it explains the role of fuel-additives in the production cycle. This expertly written and organized guide to fuels and fuel-additives

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alsopresents requirements, rules and regulations, including US and EUstandards governing automotive emissions, fuel quality andspecifications, alternate fuels, biofuels, antioxidants, depositcontrol detergents/dispersants, stabilizers, corrosion inhibitors,and polymeric fuel-additives. Fuels and Fuel-Additives covers all stages and facets ofthe production of engine fuels as well as heating and fuel oils. The book begins with a quick portrait of the future of fuels andfuel production. Then, it sets forth the regulations controllingexhaust gas emissions and fuel quality from around the world. Next,the book covers: Processing of engine fuels derived from crude oil, includingthe production of blending components Production of alternative fuels Fuel-additives for automotive engines Blending of fuels Key properties of motor fuels and their effects on engines andthe environment Aviation fuels The final chapter of the book deals with fuel oils and

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marinefuels. Each chapter is extensively referenced, providing a gateway to the primary and secondary literature in the field. At the end of the book, a convenient glossary defines all the key terms used in the book. Examining the full production cycle from feedstocks to final products, Fuels and Fuel-Additives is recommended for students, engineers, and scientists working in fuels and energy production.

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