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KEY=OF - ENRIQUE GRAHAM

THEORY AND CONSTRUCTION OF A RATIONAL HEAT MOTOR

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THEORY AND CONSTRUCTION OF A RATIONAL HEAT MOTOR - SCHOLAR'S CHOICE EDITION

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THEORIE UND KONSTRUKTION EINES RATIONELLEN WÄRMEMOTORS. THEORY AND CONSTRUCTION OF A RATIONAL HEAT MOTOR ... TRANSLATED ... BY BRYAN DONKIN, ETC

MORE HEAT THAN LIFE: THE TANGLED ROOTS OF ECOLOGY, ENERGY, AND ECONOMICS

[Springer Nature](#) This book traces the interacting histories of the disciplines of ecology and economics, from their common origin in the ancient Greek concept of oikonomia, through their distinct encounters with energy physics, to the current obstruction of neoliberal economics to responses to the ecological and climate crisis of the so-called Anthropocene. Reconstructing their constitution as separate sciences in the era of fossil-fuelled industrial capitalism, the book offers an explanation of how the ecological sciences have moved from a position of critical collision with mainstream economics in the 1970s, to one of collusion with the project of permanent growth, in and through the thermal crisis of the biosphere.

FUNDAMENTALS OF HEAT ENGINES

RECIPROCATING AND GAS TURBINE INTERNAL COMBUSTION ENGINES

[John Wiley & Sons](#) Summarizes the analysis and design of today's gas heat engine cycles This book offers readers comprehensive coverage of heat engine cycles. From ideal (theoretical) cycles to practical cycles and real cycles, it gradually increases in degree of complexity so that newcomers can learn and advance at a logical pace, and so instructors can tailor their courses toward each class level. To facilitate the transition from one type of cycle to another, it offers readers additional material covering fundamental engineering science principles in mechanics, fluid mechanics, thermodynamics, and thermochemistry. Fundamentals of Heat Engines: Reciprocating and Gas Turbine Internal-Combustion Engines begins with a review of some fundamental principles of engineering science, before covering a wide range of topics on thermochemistry. It next discusses theoretical aspects of the reciprocating piston engine, starting with simple air-standard cycles, followed by theoretical cycles of forced induction engines, and ending with more realistic cycles that can be used to predict engine performance as a first approximation. Lastly, the book looks at gas turbines and covers cycles with gradually increasing complexity to end with realistic engine design-point and off-design calculations methods. Covers two main heat engines in one single reference Teaches heat engine fundamentals as well as advanced topics Includes comprehensive thermodynamic and thermochemistry data Offers customizable content to suit beginner or advanced undergraduate courses and entry-level postgraduate studies in automotive, mechanical, and aerospace degrees Provides representative problems at the end of most chapters, along with a detailed example of piston-engine design-point calculations Features case studies of design-point calculations of gas turbine engines in two chapters Fundamentals of Heat Engines can be adopted for mechanical, aerospace, and automotive engineering courses at different levels and will also benefit engineering professionals in those fields and beyond.

EINSTEIN'S FRIDGE

HOW THE DIFFERENCE BETWEEN HOT AND COLD EXPLAINS THE UNIVERSE

[Simon and Schuster](#) This entertaining, eye-opening account of how the laws of thermodynamics are essential to understanding the world today—from refrigeration and jet engines to calorie counting and global warming—is “a lesson in how to do popular science right” ([Kirkus Reviews](#)). Einstein's Fridge tells the incredible epic story of the scientists who, over two centuries, harnessed the power of heat and ice and formulated a theory essential to comprehending our universe. “Although thermodynamics has been studied for hundreds of years...few nonscientists appreciate how its principles have shaped the modern world” ([Scientific American](#)). Thermodynamics—the branch of physics that deals with energy and entropy—governs everything from the behavior of living cells to the black hole at the center of our galaxy. Not only that, but thermodynamics explains why we must eat and breathe, how lights turn on, the limits of computing, and how the universe will end. The brilliant people who decoded its laws came from every branch of the sciences; they were engineers, physicists, chemists, biologists, cosmologists, and mathematicians. From French military engineer and physicist Sadi Carnot to Lord Kelvin, James Joule, Albert Einstein, Emmy Noether, Alan Turing, and Stephen Hawking, author Paul Sen introduces us to all of the players who passed the baton of scientific progress through time and across nations. Incredibly driven and idealistic, these brave pioneers performed groundbreaking work often in the face of torment and tragedy. Their discoveries helped create the modern world and transformed every branch of science, from biology to cosmology. “Elegantly written and engaging” ([Financial Times](#)), Einstein's Fridge brings to life one of the most important scientific revolutions of all time and captures the thrill of discovery and the power of scientific progress to shape the course of history.

JOURNAL OF THE FRANKLIN INSTITUTE

Vols. 1-69 include more or less complete patent reports of the U. S. Patent Office for years 1825-59.

TRANSACTIONS

TRANSACTIONS OF THE INSTITUTION OF ENGINEERS AND SHIPBUILDERS IN SCOTLAND

SECOND SUPPLEMENT TO THE CATALOGUE (ISSUED IN 1884.) OF THE CIRCULATING AND A PORTION OF THE INTERMEDIATE DEPARTMENTS

CATALOGUE OF THE J. MORGAN SLADE LIBRARY AND OTHER ARCHITECTURAL WORKS IN THE APPRENTICES' LIBRARY AND SUPPLEMENTS NO.1-12 TO THE FINDING LIST OF THE APPRENTICES' LIBRARY

BASIC MARINE ENGINEERING

FUNDAMENTAL CONCEPTS IN MARINE ENGINEERING

[NestFame Creations Pvt Ltd.](#) The deep blue ocean world has been bestowed upon men as a valuable resource. It has afforded men with a variety of benefits, including navigation, treasures buried within its waves, and petroleum or other crude fuels discovered deep beneath its surface. All of these resources are focused on a marine engineering degree in order to be exploited and utilised. The marine engineering Book focuses on educating students about ways for extracting crude oil and fossil fuels from deep beneath the seabed, navigational support for ships, off-shore reservoir extraction, ship maintenance and care, and a variety of other topics. Marine engineers extract and dig up crude oil and fossil fuels deep beneath the seabed. The marine engineers track down ships that have lost their bearings and drag them back on course. Marine engineers play an important part in the rescue of many lives. Not to mention ship maintenance and care, which is handled by marine engineers. They look after the ship's upper body, internal machineries, electrical wiring, and propellers. This aids in maximising the performance of the ships and extending their lifespan. All of these examples demonstrate the need of a marine engineering study in today's world. As a result, a marine engineering school proves to be a godsend for men's exploitation of the ocean's blue world. Contrary to popular assumption, marine engineering is an important part of engineering for a variety of sectors. Marine engineering is frequently required by the oil and gas industry, maritime corporations, and export-import industries. Having said that, it merely implies that marine engineering supports these industries. Marine engineering benefits these industries in a variety of ways. As a result, maritime engineering is in high demand in many of these industries. Furthermore, it will maintain maritime engineering relevant for as long as it is required. Everyone understands that transportation needs to be maintained on a regular basis. They require care in the form of frequent examinations, repairs, and even a fresh coat of paint. Marine engineers will be called upon to assist with ship repairs and upkeep onboard. The upkeep of a ship is expensive, but it is necessary. Maintaining the ship is an excellent idea if you want to maintain a long-term business with regular profitability. Marine engineers are also in charge of maintaining a boat's safety. Boating accidents, such as fires, engine failures, and so forth, are rarely discussed. Boaters and ship operators frequently assume that nothing bad will happen onboard. They are, however, completely incorrect. They completely forgot that even when the boats are docked or berthed, anything can happen. As a result, having a marine engineer on board to assist with ship maintenance is ideal. As a marine engineer, you have a considerable amount of say and influence over future maritime legislation. This is primarily due to the fact that maritime engineers, for obvious reasons, know their sector better than anyone else. As a result, they are in a stronger position to advocate for better maritime legislation. A marine engineer is a relatively new engineering specialisation. Certain abilities and elements, however, can be transferred to other engineering fields. When marine engineers are laid off, their transferrable abilities have proven effective in finding new jobs in the same industry. Marine engineers, on the whole, learn distinct areas of engineering than other types of engineers. This means that when they are seeking for a new engineering career, they can switch to a different type of engineering. They simply need to upgrade themselves by upskilling in other areas of engineering. Marine engineers are beneficial in a variety of ways. They make a significant contribution to the maritime industry, which benefits a variety of other industries that rely on the water.

PROCEEDINGS - INSTITUTION OF MECHANICAL ENGINEERS

PROCEEDINGS

ENERGY AND THE UNEXPECTED

[Oxford University Press, USA](#) Only in the early 19th century did scientists recognize that energy is a distinct physical quantity. Since then, however, it has played a pivotal role in the advancement and the understanding of science and in technology. From the steam engine to the equation $E=mc^2$ and beyond, the concept of energy offers an essential key to our understanding of the Universe. In this entertaining and highly readable book, Professor Laidler explains the concept of energy and its characteristics as they were discovered over the past two centuries. He describes how energy transformations, as interpreted by the second law of thermodynamics, are not absolute but can only be understood in terms of chance and probability. After looking at energy on a small scale and then at the scale of the Universe itself, he shows how these topics are linked with chaos theory according to which the unexpected is inevitable. Written for the general reader with an interest in science, the development and interrelationship of the concepts of energy, chance and chaos are set in their historical context, and illuminated by accounts of the key scientists involved and of some of their investigations.

HEAVY EQUIPMENT OPERATORS SAFETY MANUAL

A SHORT HISTORY OF NAVAL AND MARINE ENGINEERING

[Cambridge University Press](#) Originally published in 1938, this book was written to provide an account of the historical development of naval and marine engineering. The material which formed the basis of the text was gathered together from a variety of sources during a period of approximately thirty years. Technical papers, presidential addresses, journals, textbooks, biographies, official regulations, personal letters, reminiscences and previously unpublished manuscripts were all drawn upon to illustrate the many aspects of naval and marine engineering. Numerous illustrative figures are included throughout. This book will be of value to anyone with an interest in the history of engineering.

THERMODYNAMICS

FROM CONCEPTS TO APPLICATIONS, SECOND EDITION

[CRC Press](#) There are many thermodynamics texts on the market, yet most provide a presentation that is at a level too high for those new to the field. This second edition of Thermodynamics continues to provide an accessible introduction to thermodynamics, which maintains an appropriate rigor to prepare newcomers for subsequent, more advanced topics. The book presents a logical methodology for solving problems in the context of conservation laws and property tables or equations. The authors elucidate the terms around which thermodynamics has historically developed, such as work, heat, temperature, energy, and entropy. Using a pedagogical approach that builds from basic principles to laws and eventually corollaries of the laws, the text enables students to think in clear and correct thermodynamic terms as well as solve real engineering problems. For those just beginning their studies in the field, Thermodynamics, Second Edition provides the core fundamentals in a rigorous, accurate, and accessible presentation.

QUARTERLY INDEX OF ADDITIONS TO THE MILWAUKEE PUBLIC LIBRARY

BIODIESEL FROM FLOWERING PLANTS

[Springer Nature](#) This book offers an exhaustive coverage of process modifications in biodiesel production from oil drawn from 84 oleaginous plant species occurring in all parts of the world, thereby enlisting the scope and potential of many new and non-conventionally obscure plant sources. Biodiesel, now prepared from major vegetable oils, has become a compulsion to offset the dwindling reserve of petro-diesel, which naturally intrudes into the cooking oil demand. This has necessitated search for new sources. The book consolidates the biodiesel production from oils being extracted from conventional plants and also from a plethora of new and non-conventional plants along with their habit and habitats, history of biodiesel's invention, explanation on species-wise biodiesel process variables, catalytic inclusions, global standards, fuel properties varying with species, blending benefits, cost effectiveness, shelf life, ignition characteristics, fuel consumption and engine performances with eco-friendly exhaust. This book is of immense use to teachers, researchers, scientists of climatology and carbon footprint, energy consultants, fuel chemists, students of agriculture and forestry, automobile engineering, industrial chemistry, environmental sciences and policy makers or anyone who wishes to scale up the biodiesel industry.

BUILDING AMERICAN SUBMARINES, 1914-1940

THE PROLOGUE

THE ALTERNATIVE ENERGY MEGATREND IN THE AGE OF GREAT POWER COMPETITION

[Post Hill Press](#) This is not another alternative energy study. Rather, The Prologue identifies and charts the security-related trajectory of a relatively new global phenomenon: the ascent of alternative energy as a 21st century megatrend. Why and how have contemporary alternative energy developments evolved into a 21st century global socio-political and techno-economic megatrend? What are the security implications of this megatrend? And what does the megatrend's evolution reveal about upcoming geopolitical, energy, defense, environmental, and economic security challenges? This book endeavors to answer these questions by establishing the conceptual framework of a universally securitized world in which mutually interacting threats have expanded the needs and security considerations of today's globalized and interdependent actors, including states, international organizations, multinational corporations, and political and social movements. "Alexander Mirtchev's sweeping exploration of the changing energy landscape looks far into the future and outlines issues that will occupy scholars and policymakers for decades to come."—The Hon. Henry Kissinger, Chairman, Kissinger Associates, Former Secretary of State and National Security Advisor "With the advancements in alternative energy technology at the beginning of the 21st century, energy security thinking and planning will never be the same—Alexander Mirtchev's profoundly original book reveals these new dilemmas that will challenge policymakers in all major economies and provides for dealing with the new realities in a smart way."—The Hon. Judge William H. Webster, Chairman, Homeland Security Advisory Council, Former Director of the CIA and FBI

SYNTHETICS, MINERAL OILS, AND BIO-BASED LUBRICANTS

CHEMISTRY AND TECHNOLOGY, SECOND EDITION

[CRC Press](#) Highlighting the major economic and industrial changes in the lubrication industry since the first edition, Synthetics, Mineral Oils, and Bio-Based Lubricants, Second Edition outlines the state of the art in each major lubricant application area. Chapters cover trends in the major industries, such as the use of lubricant fluids, growth or decline of market areas and applications, potential new applications, production capacities, and regulatory issues, including biodegradability, toxicity, and food production equipment lubrication. In a single, unique volume, Synthetics, Mineral Oils, and Bio-Based Lubricants, Second Edition offers property and performance information of fluids, theoretical and practical background to their current applications, and strong indicators for global market trends that will influence the industry for years to come.

MARINE POWER PLANT

[Springer Nature](#) This book describes the history and development of marine power plant. Problems of arrangement, general construction and parameters of marine power plants of all types are considered. It also introduces different characteristics of each type of marine power plant, matching characteristic for diesel propulsion. The book gives a clear idea about different marine power engines, including working principle, structure and application. Readers will understand easily the power system for ships since there are a lot of illustrations and instructions for each of the equipment. This book is useful for students majoring in "marine engineering", "energy and power engineering" and other related majors. It is also useful for operators of marine institution for learning main design and operation of ship plants.

THE RAILROAD

THE LIFE STORY OF A TECHNOLOGY

[Greenwood Publishing Group](#) Looks at the history of railroads, discussing changes in its technology from the steam locomotives of the early nineteenth century to the high-speed trains of the twenty-first century.

REMARKABLE ENGINEERS

FROM RIQUET TO SHANNON

[Cambridge University Press](#) Engineering transformed the world completely between the 17th and 21st centuries. Remarkable Engineers tells the stories of 51 of the key pioneers in this transformation, from the designers and builders of the world's railways, bridges and aeroplanes, to the founders of the modern electronics and communications revolutions. The focus throughout is on their varied life stories, and engineering and scientific detail is kept to a minimum. Engineer profiles are organized chronologically, inviting readers with an interest in engineering to follow the path by which these remarkable engineers utterly changed our lives.

THE DIESEL THAT DID IT

GENERAL MOTORS' FT LOCOMOTIVE

[Indiana University Press](#) The Diesel That Did It tells the story of the legendary diesel-electric locomotive, the FT. As war loomed in 1939, American railroads were on the precipice of railroad transformation. In an obscure factory in La Grange, Illinois, a group of gifted engineers and designers were planning a revolution that would shake railroading to its foundations and eventually put the steam locomotive out of business. Their creation, the FT, was a diesel-electric, semi-streamlined freight engine. The FT would establish a new standard for reliability, flexibility, and cost, but its arrival unsettled many railroad employees and gave fresh ammunition to their labor unions, who believed that it threatened a century-old culture. Wallace W. Abbey's The Diesel That Did It is the story of a revolution. He explores how EMC (and its successor Electro-Motive Division of General Motors) conceived the FT, and how it ultimately emerged as the dominant locomotive power plant for 20 years. However, for Abbey, the history of the Santa Fe Railway and the FT go hand in hand. The Diesel That Did It also offers a penetrating look at how the great American railroad, at the height of its Super Chief glamor, threw its conservative mechanical traditions aside to bet big on the diesel. Showcasing more than 140 exquisite photographs by Abbey and other noted photographers, The Diesel That Did It is a captivating story not to be missed by railroaders and railfans.

WORK IN MARKET AND INDUSTRIAL SOCIETIES

[SUNY Press](#) It's a living! That fact, no one can deny. Yet the significance of work--productive activity which alters the physical environment to meet human needs--goes far beyond the paycheck. Work involves, among other things, embracing a set of roles and beliefs, mastering skills and knowledge, and behaving in ways considered appropriate for the achievement of a desired level of productivity and quality. This book is an informative and highly readable global survey of the various aspects of work in market and industrial societies. Its extensive general introduction and the seven section introductions discuss the role of work in society and the problems and satisfactions associated with working. The book's eighteen chapters, written by well-known specialists, spotlight characteristics which give each occupation its distinctive cultural identification. Featured in this compendium of work and working are factory workers, white collar employees, construction personnel, farmers and migrant workers, miners, railroaders, longshoremen, sanitation workers, firefighters, and fishermen.

BIOGRAPHICAL DICTIONARY OF THE HISTORY OF TECHNOLOGY

[Routledge](#) This Biographical Dictionary seeks to put the world of technology in the context of those who have made the most important contribution to it. For the first time information has been gathered on the people who have made the most significant advances in technology. From ancient times to the present day, the major inventors, discoverers and entrepreneurs from around the world are profiled, and their contribution to society explained and assessed. Structure The Dictionary presents descriptive and analytical biographies of its subjects in alphabetical order for ease of reference. Each entry provides detailed information on the individual's life, work and relevance to their particular field. * in the first part of the entry, the information will include the dates and places of the subject's birth and death, together with their nationality and their field of activity * in the main body of the entry there follows an account of their principal achievements and their significance in the history of technology, along with full details of appointments and honours * finally an annotated bibliography will direct the reader to the subject's principal writings and publications and to the most important secondary works which the reader can consult for further information. Special Features: * The first work in existence to examine technologists in detail * Contains over 1,500 entries giving detailed information * Extensive cross-references enable the reader to compare subjects and build up a picture of technological advance^ * Figures drawn from fields such as Aeronautics, Telecommunications, Architecture, Photography and Textiles

BIOREFINERIES

FOR BIOMASS UPGRADING FACILITIES

[Springer Science & Business Media](#) Industrial biorefineries have been identified as the most promising routes to the creation of a bio-based economy. Partial biorefineries already exist in some energy crop, forest-based, and lignocellulosic product facilities. Biorefineries: For Biomass Upgrading Facilities examines the variety of different technologies which integrated bio-based industries use to produce chemicals; biofuels; food and feed ingredients; biomaterials; and power from biomass raw materials. Conversion technologies are also covered, since biomass can be converted into useful biofuels and biochemicals via biomass upgrading and biorefinery technologies. Biorefineries: For Biomass Upgrading Facilities will prove a practical resource for chemical engineers, and fuel and environmental engineers. It will also be invaluable in academic fields, providing useful information for both researchers and students.

A HISTORY OF TECHNOLOGY AND ENVIRONMENT

FROM STONE TOOLS TO ECOLOGICAL CRISIS

[Taylor & Francis](#) This book provides an accessible overview of the ways that key areas of technology have impacted global ecosystems and natural communities. It offers a new way of thinking about the overall origins of environmental problems. Combining approaches drawn from environmental biology and the history of science and technology, it describes the motivations behind many technical advances and the settings in which they occurred, before tracing their ultimate environmental impacts. Four broad areas of human activity are described: over-harvesting of natural resources using the examples of hunting, fishing and freshwater use; farming, population, land use, and migration; discovery, synthesis and use of manufactured chemicals; and development of sources of artificial energy and the widespread pollution caused by power generation and energy use. These innovations have been driven by various forces, but in most cases new technologies have emerged out of fascinating, psychologically rich, human experiences. This book provides an introduction to these complex developments and will be essential reading for students of science, technology and society, environmental history, and the history of science and technology.

IRON AGE

SECOND GENERATION BIOFUELS AND BIOMASS

ESSENTIAL GUIDE FOR INVESTORS, SCIENTISTS AND DECISION MAKERS

[John Wiley & Sons](#) This guide to investing in the bioenergy market covers the topic from both a scientific, economic and political perspective. It describes the increasing number of second generation biodiesel projects which are now emerging in anticipation of growing sustainability concerns by governments, and in response to market demands for improved process efficiencies and greater feedstock production yields. The book also closely examines the science and technology involved in second generation biofuels and gives concrete examples, such as in the aviation industry. The result is an essential guide for scientists, investors, politicians and decision-makers in the energy sector.

HISTORY OF BIODIESEL - WITH EMPHASIS ON SOY BIODIESEL (1900-2017)

EXTENSIVELY ANNOTATED BIBLIOGRAPHY AND SOURCEBOOK

[Soyinfo Center](#) One of the most comprehensive, well documented, and well illustrated books on this subject. With extensive subject and geographical index. 41 photographs and illustrations - mostly color. Free of charge in digital format on Google Books.

BUILDING AMERICAN SUBMARINES, 1914-1940

[The Minerva Group, Inc.](#) In this volume, Gary E. Weir assesses the Navy's efforts between 1914 and 1940 to develop effective submarines. In particular, the author describes the work of the Navy and private industry that allowed the relatively primitive submersible of the First World War period to be replaced by the fleet submarine that fought in the Second World War. Building American Submarines argues that there was a fundamental shift in the relationship between the Navy and its submarine suppliers during this period. After being completely dependent upon private industry in 1914, the Navy - not industry - controlled the design and construction process by the eve of the Second World War. As a result, the Navy was able to acquire high-quality submarines to fulfill the nation's strategic requirements. When we entered the Second World War, these new submarines were ready to undertake prolonged and effective antishipping operations in distant waters. That capability was of enormous importance in the ensuing triumph of American sea power over Imperial Japan. In tracing these developments, the author provides insights into the goals of the naval submarine leaders, the evolution of the American submarine industry, the influence of German undersea technology, and strategic requirements foreseen by naval planners. The Navy's historians hope that this case study of the problems and successes involved in a major weapons acquisition program will be of particular interest to naval personnel involved in that process today, as well as to representatives of the industrial firms that supply the needs of the modern Navy.

THE 100 MOST INFLUENTIAL INVENTORS OF ALL TIME

[Britannica Educational Publishing](#) If necessity is indeed the mother of invention, then the individuals profiled in this volume should be considered the most laudable of all midwives. They each saw a need and met it. Readers will learn more about the lives and methodologies of well-known inventors such as Benjamin Franklin and Thomas Edison, and become familiar with several more whose creations have sometimes outstripped their personal fame.

BIOFUELS

SECURING THE PLANET'S FUTURE ENERGY NEEDS

[Springer Science & Business Media](#) Biofuel is a renewable energy source produced from natural materials. The benefits of biofuels over traditional petroleum fuels include greater energy security, reduced environmental impact, foreign exchange savings, and socioeconomic

issues related to the rural sector. The most common biofuels are produced from classic food crops that require high-quality agricultural land for growth. However, bioethanol can be produced from plentiful, domestic, cellulosic biomass resources such as herbaceous and woody plants, agricultural and forestry residues, and a large portion of municipal and industrial solid waste streams. There is also a growing interest in the use of vegetable oils for making biodiesel. "Biofuels: Securing the Planet's Future Energy Needs" discusses the production of transportation fuels from biomass (such as wood, straw and even household waste) by Fischer-Tropsch synthesis. The book is an important text for students and researchers in energy engineering, as well as professional fuel engineers.

BIODIESEL

GROWING A NEW ENERGY ECONOMY

[Chelsea Green Publishing](#) For anyone who is trying to keep up with the extremely rapid developments in the biodiesel industry, the second edition of *Biodiesel: Growing a New Energy Economy* is an invaluable aid. The breathtaking speed with which biodiesel has gained acceptance in the marketplace in the past few years has been exceeded only by the proliferation of biodiesel production facilities around the United States--and the world--only to confront new social and environmental challenges and criticisms. The international survey of the biodiesel industry has been expanded from 40 to more than 80 countries, reflecting the spectacular growth of the industry around the world. This section also tracks the dramatic shifts in the fortunes of the industry that have taken place in some of these nations. The detailed chapters that cover the industry in the United States have also been substantially rewritten to keep abreast of its many new developments and explosive domestic growth. An expanded section on small-scale, local biodiesel production has been added to better represent this small but growing part of the industry. Another new section has been added to more fully explore the increasingly controversial issues of deforestation and food versus fuel, as well as GMO crops. The second edition concludes with updated views on where the industry is headed in the years to come from some of its key players.

A TO Z OF STS SCIENTISTS

[Infobase Publishing](#) Profiles over 200 scientists from around the world who made important contributions to the interdisciplinary field of science, technology and society (STS), including Thomas P. Ackerman, Helen Caldicott, James Watt, and more.