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March 2024 - Surplus Record Machinery & Equipment Surplus Record
With the rapid expansion of the Asia-Pacific economy in the last decade and the recovery after the recent crisis, severe demands will be placed on energy services and the environment. Coping with the volatile oil prices that persist in the market introduces an additional factor into the energy supply and demand equation, not just for countries in this region but also worldwide. Inevitably there will be implications for environmental issues too. The future will see a continuing challenge to balance growth with sustainability in the economic, social and environmental sectors. This conference, a sequel to the immensely successful APCSEET conferences held in Singapore and Australia, is aimed at meeting that challenge by addressing the pertinent issues related to sustainable energy and environmental protection. It provides a forum for participants from academia, industry and government agencies to interact, report on research in progress, and identify opportunities in the fields of sustainable energy and environmental technologies. The presentations include not only technical issues such as air pollution control, wastewater treatment, solid waste management, renewable energy and cleaner production, but also education and policy issues.

Environmental Indicators Springer
The need for manufacturers to meet U.S. Environmental Protection Agency (EPA) mobile source diesel emissions standards for on-highway light duty and heavy duty vehicles has been the driving force for the control of diesel particulate and NOx emissions reductions. Diesel Particulate Emissions: Landmark Research 1994-2001 contains the latest research and development findings that will help guide engineers to achieve low particulate emissions from future engines. Based on extensive SAE literature from the past seven years, the 45 papers in this book have been selected from the SAE Transactions Journals.

In-cynlindrical Measurement of Particulate Radiant Heat Transfer in a Direct Injection Diesel Engine Surplus Record
This book will assist readers in meeting today's tough challenges of improving diesel engine emissions, diesel efficiency, and public perception of the diesel engine. It can be used as an introductory text, while at the same time providing practical information that will be useful for experienced readers. This comprehensive book is well illustrated with more than 560 figures and 80 tables. Each main section is broken down into chapters that offer more specific and extensive information on current issues, as well as answers to technical questions.

Diesel Particulate Emissions Landmark Research 1994-2001 Readworthy
SURPLUS RECORD, is the leading independent business directory of new and used capital equipment, machine tools, machinery, and industrial equipment, listing over 95,000 industrial assets; including metalworking and fabricating machine tools, chemical and process equipment, cranes, air compressors, pumps, motors, circuit breakers, generators, transformers, turbines, and more. Over 1,100 businesses list with the SURPLUS RECORD. January 2022 issue. Vol. 99, No. 1

May 2023 - Surplus Record Machinery & Equipment Directory Jones & Bartlett Learning
This is the second book edited with a selection of papers from the two-yearly THIESEL Conference on Thermo- and Fluid Dynamic Processes in Diesel Engines, organised by CMT-Mvtores Termicos of the Universidad Po/itecnica de Valencia, Spain. This volume includes versions of papers selected from those presented at the THIESEL 2002 Conference th held on 10th to 13 September 2002. We hope it will be the second volume of a long series reflecting

the quality of the THIESEL Conference. This year, the papers are grouped in six main thematic areas: State of the Art and Prospective, Injection Systems and Spray Formation, Combustion and Emissions, Engine Modelling, Alternative Combustion Concepts and Experimental Techniques. The actual conference covered a wider scope of topics, including Air Management and Fuels for Diesel Engines and a couple of papers included reflect this variety. However, the selection of papers published here represents the most current preoccupations of Diesel engine designers, namely how to improve the combustion process using new injection strategies and alternative concepts such as the Homogeneous Charge Combustion Ignition.

June 2023 - Surplus Record Machinery & Equipment Directory CRC Press
SURPLUS RECORD, is the leading independent business directory of new and used capital equipment, machine tools, machinery, and industrial equipment, listing over 110,000 industrial assets; including metalworking and fabricating machine tools, chemical and process equipment, cranes, air compressors, pumps, motors, circuit breakers, generators, transformers, turbines, and more. Over 1,100 businesses list with the SURPLUS RECORD. March 2022 issue. Vol. 100, No. 1

January 2023 - Surplus Record Machinery & Equipment Directory Surplus Record
SURPLUS RECORD, is the leading independent business directory of new and used capital equipment, machine tools, machinery, and industrial equipment, listing over 110,000 industrial assets; including metalworking and fabricating machine tools, chemical and process equipment, cranes, air compressors, pumps, motors, circuit breakers, generators, transformers, turbines, and more. Over 1,100 businesses list with the SURPLUS RECORD. March 2022 issue. Vol. 100, No. 2

The Effects of Filtration Velocities and Particulate Matter Characteristics on Diesel Particulate Filter Wall Loading Performance John Wiley & Sons
SURPLUS RECORD, is the leading independent business directory of new and used capital equipment, machine tools, machinery, and industrial equipment, listing over 110,000 industrial assets since 1924; including metalworking and fabricating machine tools, chemical and process equipment, cranes, air compressors, pumps, motors, circuit breakers, generators, transformers, turbines, and more. Over 1,100 businesses list with the SURPLUS RECORD. April 2023 issue. Vol. 100, No. 4

Sustainable Development in Chemical Engineering Springer Science & Business Media
This is a well known fact that the resources of mineral oils are depleting day-by-day, and the cost of exploration of the remaining reserves is bound to escalate. Moreover, the burning of fossil fuels increases the level of carbon-dioxide in the atmosphere causing the 'Green House' effect. In this context, a viable and sustainable alternative fuel is necessary to cater to a large fleet of automobiles across the world. The advent of bio-diesel has come to the rescue in such a warranting situation. Efforts are being made to streamline the systems to produce bio-diesels at economically viable rates and apply them in running the diesel engines in lieu of petro-diesel. And the present study is an attempt in this direction. It seeks to exploit non-edible oil plants, especially Jatropha, mahua and palm, to replace diesel oil usage in the conventional diesel engines. Providing transesterification procedure for all the three non-edible oils, it deals with the heat release rate calculations based on the pressure data collected in the combustion chamber. It also extends discussion on the instrumentation and experimentation, as well as the results of the findings.

Sustainable Energy and Environmental Technologies Springer Nature
Combustion Engineering, Second Edition maintains the same goal as the original: to present the fundamentals of combustion science with application to today's energy challenges. Using combustion applications to reinforce the fundamentals of combustion science, this text provides a uniquely accessible introduction to combustion for undergraduate students, first-year graduate students, and professionals in the workplace. Combustion is a critical issue impacting energy utilization, sustainability, and climate change. The challenge is to design safe and efficient combustion systems for many types of fuels in a way that protects the environment and enables sustainable lifestyles. Emphasizing the use of combustion fundamentals in the engineering and design of combustion systems, this text provides detailed coverage of gaseous, liquid and solid fuel combustion, including focused coverage of biomass combustion, which will be invaluable to new entrants to the field. Eight chapters address the fundamentals of combustion, including fuels, thermodynamics, chemical kinetics, flames, detonations, sprays, and solid fuel combustion mechanisms. Eight additional chapters apply these fundamentals to furnaces, spark ignition and diesel engines, gas turbines, and suspension burning, fixed bed combustion, and fluidized bed combustion of solid fuels. Presenting a renewed emphasis on fundamentals and updated applications to illustrate the latest trends relevant to combustion engineering, the authors provide a number of pedagogic features, including: Numerous tables with practical data and formulae that link combustion fundamentals to engineering practice

Concise presentation of mathematical methods with qualitative descriptions of their use Coverage of alternative and renewable fuel topics throughout the text Extensive example problems, chapter-end problems, and references These features and the overall fundamentals-to-practice nature of this book make it an ideal resource for undergraduate, first level graduate, or professional training classes. Students and practitioners will find that it is an excellent introduction to meeting the crucial challenge of engineering sustainable combustion systems in a cost-effective manner. A solutions manual and additional teaching resources are available with qualifying course adoption.

April 2023 - Surplus Record Machinery & Equipment Directory Surplus Record
SURPLUS RECORD, is the leading independent business directory of new and used capital equipment, machine tools, machinery, and industrial equipment, listing over 110,000 industrial assets since 1924; including metalworking and fabricating machine tools, lathes, cnc equipment, machine centers, woodworking equipment, food equipment, chemical and process equipment, cranes, air compressors, pumps, motors, circuit breakers, generators, transformers, turbines, and more. Over 1,100 businesses list with the SURPLUS RECORD. May 2023 issue. Vol. 100, No. 5

Technical Literature Abstracts The Energy and Resources Institute (TERI)
SURPLUS RECORD, is the leading independent business directory of new and used capital equipment, machine tools, machinery, and industrial equipment, listing over 95,000 industrial assets; including metalworking and fabricating machine tools, chemical and process equipment, cranes, air compressors, pumps, motors, circuit breakers, generators, transformers, turbines, and more. Over 1,100 businesses list with the SURPLUS RECORD. June 2022 issue. Vol. 99, No. 6

April 2024 - Surplus Record Machinery & Equipment Surplus Record
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Modern Diesel Technology SAE International
SURPLUS RECORD, is the leading independent business directory of new and used capital equipment, machine tools, machinery, and industrial equipment, listing over 110,000 industrial assets since 1924; including metalworking and fabricating machine tools, lathes, cnc equipment, machine centers, woodworking equipment, food equipment, chemical and process equipment, cranes, air compressors, pumps, motors, circuit breakers, generators, transformers, turbines, and more. Over 1,100 businesses list with the SURPLUS RECORD. November 2023 issue. Vol. 100, No. 11

Transportation, Energy Use and Environmental Impacts Surplus Record
Transportation, Energy Use and Environmental Impacts shows researchers, students and professionals the important connection between transportation planning, energy use and emissions. The book examines the major transportation activities, components, systems and subsystems by mode. It closely explores the resulting environmental impacts from transport planning, construction and the decommissioning of transportation systems. It discusses transportation planning procedures from an energy use standpoint, offering guidelines to make transportation more energy consumption efficient. Other sections cover propulsion and energy use systems, focusing on road transportation, railway, waterway, pipeline, air, air pollutants, greenhouse gas emissions, and more. Shows the relationship between road, rail, maritime, air and pipeline transportation activities with fuel use and pollution, greenhouse gases and waste Provides a comprehensive approach, covering transportation system planning, design and infrastructure construction Synthesizes the needed information and data, explaining how to improve transportation system performance Includes learning aids, such as cases from around the globe, a glossary, extensive bibliography, chapter objectives, summaries and exercises

Combustion Engineering, Second Edition Surplus Record
"Fundamentals of Medium/Heavy Duty Diesel Engines, Second Edition offers comprehensive coverage of every ASE task with clarity and precision in a concise format that ensures student comprehension and encourages critical thinking. This edition describes safe and effective diagnostic, repair, and maintenance procedures for today's medium and heavy vehicle diesel engines"--

Building the future we want SAE International
Rapid Urbanization And Industrialization In India Visibly Spell The Need To Put In Place Effective And Efficient Systems For Disposal Of The Waste Generated - Municipal Solid Waste, Plastic, Waste Water, And So On. As In Other Asian Countries, In India Too,

Landfills, Groundwater Pollution, Residues Produced By Agro-Industrial Processes, And Other Similar Problems Pose A Threat. It Is Estimated That Methanogenic Anaerobic Digestion Releases Over 250 Million Tonnes Of Methane Gas Annually All Over The World - Methane Is A Substantial Contributor To Global Warming. These Facts Compel Us To Take A Closer Look At The Need To Recycle Waste Rather Than Simply Find Ways To Dispose Of It. At A Time When The World Is Confronted With The Twin Challenges Of Fossil-Fuel Depletion And Environmental Degradation, The Book Emphasizes How Addressing The Latter Could Contribute To Mitigating The Former By Addressing The Issues Of Generating Energy From Waste, Describing Scientific Methods To Minimize Its Hazardous Impacts, Providing An Assessment Of The Existing Technologies, And Highlighting Various Aspects Of Biofuel Production And Cogeneration.

Annual Index/abstracts of SAE Technical Papers Surplus Record

Environmental indicators are the first line of warning against hazards caused by humans or nature catastrophes to prevent diseases and death of living organisms. The present book covers a large variety of environmental indicators from physical-chemistry through economical, bioinformatics, electromagnetic irradiation and health aspects, all dealing with environmental pollution. This volume has been intended to environmentalists, engineers, scientists and policy makers as well to anybody interested in the latest development in the indicator field.

Effect of Radiation on Diesel Engine Combustion and Heat Transfer Surplus Record

Combustion Engineering, Second Edition maintains the same goal as the original: to present the fundamentals of combustion science with application to today's energy challenges. Using combustion applications to reinforce the fundamentals of combustion science, this text provides a uniquely accessible introduction to combustion for undergraduate stud

Diesel Emissions and Their Control World Scientific

Through a carefully-maintained "building block" approach, this text offers an easy-to-understand guide to automotive, truck, and heavy equipment diesel engine technology in a single, comprehensive volume. Text focus is on state-of-the-art technology, as well as on the fundamental principles underlying today's technological advances in service and repair procedures. Industry accepted practices are identified; and, readers are encouraged to formulate a sound understanding of both the "why" and the "how" of modern diesel engines and equipment. Thorough, up-to-date treatment of diesel technology encompasses major advancements in the field , especially recent developments in the use of electronics in heavy-duty trucks, off-highway equipment, and marine applications. The text's primary focus is on state-of- the-art "electronic fuel injection" systems such as those being used by such manufacturers as Caterpillar, Cummins, Detroit Diesel, Volvo, and Mack. A systematic, structured organization helps readers learn step-by-step, beginning with engine systems, and working logically through intake/exhaust, cooling, lubrication, and fuel injection systems, highlighting major changes in today's modern engines.