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Assessment of Fuel Economy Technologies for Light-Duty Vehicles - National Research Council 2011-06-03
Various combinations of commercially available technologies could greatly reduce fuel consumption in passenger cars, sport-utility vehicles, minivans, and other light-duty vehicles without compromising vehicle performance or safety. Assessment of Technologies for Improving

Light Duty Vehicle Fuel Economy estimates the potential fuel savings and costs to consumers of available technology combinations for three types of engines: spark-ignition gasoline, compression-ignition diesel, and hybrid. According to its estimates, adopting the full combination of improved technologies in medium and large cars and pickup trucks with spark-ignition engines could reduce fuel consumption by 29 percent at an additional cost of \$2,200 to the consumer. Replacing spark-ignition engines with diesel engines and components would yield fuel savings of about 37 percent at an added cost of approximately \$5,900 per vehicle, and replacing spark-ignition engines with hybrid engines and components would reduce fuel consumption by 43 percent at an increase of \$6,000 per vehicle. The book focuses on fuel consumption--the amount of fuel consumed in a given driving distance--because energy savings are directly related to the amount of fuel used. In contrast, fuel economy measures how far a vehicle will travel with a gallon of fuel. Because fuel consumption data indicate money saved on fuel purchases and reductions in carbon dioxide emissions, the book finds that vehicle stickers should provide consumers with fuel consumption data in addition to fuel economy information.

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Handbook of Diesel Engines - Klaus Mollenhauer 2010-06-22

This machine is destined to completely revolutionize cylinder diesel engine up through large low speed t- engine engineering and replace everything that exists. stroke diesel

engines. An appendix lists the most (From Rudolf Diesel's letter of October 2, 1892 to the important standards and regulations for diesel engines.

publisher Julius Springer.) Further development of diesel engines as economiz- Although Diesel's stated goal has never been fully ing, clean, powerful and convenient drives for road and achievable of course, the diesel engine indeed revolu- nonroad use has proceeded quite dynamically in the tionized drive systems. This handbook documents the last twenty years in particular. In light of limited oil current state of diesel engine engineering and technol- reserves and the discussion of predicted climate ogy. The impetus to publish a Handbook of Diesel change, development work continues to concentrate Engines grew out of ruminations on Rudolf Diesel's on reducing fuel consumption and utilizing alternative transformation of his idea for a rational heat engine fuels while keeping exhaust as clean as possible as well into reality more than 100 years ago. Once the patent as further increasing diesel engine power density and was filed in 1892 and work on his engine commenced enhancing operating performance.

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2013-03-14

Internal combustion engines still have a potential for substantial improvements, particularly with regard to fuel efficiency and environmental compatibility. These goals can be achieved with help of control systems. Modeling and Control of Internal Combustion Engines (ICE) addresses these issues by offering an introduction to cost-effective model-based control system design for

ICE. The primary emphasis is put on the ICE and its auxiliary devices. Mathematical models for these processes are developed in the text and selected feedforward and feedback control problems are discussed. The appendix contains a summary of the most important controller analysis and design methods, and a case study that analyzes a simplified idle-speed control problem. The book is written for students interested in the design of classical and novel ICE control systems.

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An Introduction to Engine Testing and Development - Richard Atkins 2009-04-01

This book presents the basic principles required for the testing and development of internal combustion engine powertrain systems, providing the new automotive engineer with the basic tools

required to effectively carry out meaningful tests. With useful information for graduate students, new test technicians, and established engineers, this book explains the test process - from setting up a dynamometer test facility to testing for performance and durability. Combustion analysis and emissions, and new test trends are also covered.

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Diesel and Gasoline Engine Exhausts and Some

Nitroarenes - IARC Working Group on the

Evaluation of Carcinogenic Risks to Humans

2015-06-04

This volume of the IARC Monographs provides

evaluations of the carcinogenicity of diesel and

gasoline engine exhausts, and of 10 nitroarenes

found in diesel engine exhaust: 3,7-

dinitrofluoranthene, 3,9-dinitrofluoranthene, 1,3-

dinitropyrene, 1,6-dinitropyrene, 1,8-dinitropyrene,

6-nitrochrysene, 2-nitrofluorene, 1-nitropyrene, 4-

nitropyrene, and 3-nitrobenzanthrone. Diesel

engines are used for transport on and off roads

(e.g. passenger cars, buses, trucks, trains, ships),

for machinery in various industrial sectors (e.g.

mining, construction), and for electricity

generators, particularly in developing countries.

Gasoline engines are used in cars and hand-held

equipment (e.g. chainsaws). The emissions from

such combustion engines comprise a complex

and varying mixture of gases (e.g. carbon

monoxide, nitrogen oxides), particles (e.g. PM10,

PM2.5, ultrafine particles, elemental carbon,

organic carbon, ash, sulfate, and metals), volatile

organic compounds (e.g. benzene, formaldehyde)

and semi-volatile organic compounds (e.g.

polycyclic aromatic hydrocarbons) including

oxygenated and nitrated derivatives of polycyclic

aromatic hydrocarbons. Diesel and gasoline

engines thus make a significant contribution to a

broad range of air pollutants to which people are exposed in the general population as well as in different occupational settings. An IARC Monographs Working Group reviewed epidemiological evidence, animal bioassays, and mechanistic and other relevant data to reach conclusions as to the carcinogenic hazard to humans of environmental or occupational exposure to diesel and gasoline engine exhausts (including those associated with the mining, railroad, construction, and transportation industries) and to 10 selected nitroarenes. -- Back cover.

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Diesel Engine Reference Book - Bernard Challen

1999

The Diesel Engine Reference Book, Second Edition, is a comprehensive work covering the design and application of diesel engines of all sizes. The first edition was published in 1984 and since that time the diesel engine has made significant advances in application areas from passenger cars and light trucks through to large

marine vessels. The Diesel Engine Reference Book systematically covers all aspects of diesel engineering, from thermodynamics theory and modelling to condition monitoring of engines in service. It ranges through subjects of long-term use and application to engine designers, developers and users of the most ubiquitous mechanical power source in the world. The latest edition leaves few of the original chapters untouched. The technical changes of the past 20 years have been enormous and this is reflected in the book. The essentials however, remain the same and the clarity of the original remains. Contributors to this well-respected work include some of the most prominent and experienced engineers from the UK, Europe and the USA. Most types of diesel engines from most applications are represented, from the smallest air-cooled engines, through passenger car and trucks, to marine engines. The approach to the subject is essentially practical, and even in the most complex technological language remains straightforward, with mathematics used only where necessary and then in a clear fashion. The approach to the topics varies to suit the needs of different readers. Some areas are covered in both an overview and also in some detail. Many drawings, graphs and photographs illustrate the 30 chapters and a large easy to use index provides convenient access to any information the readers requires.

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