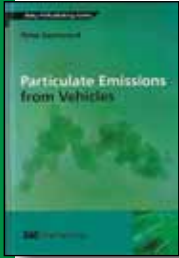


# Environment



## Particulate Emissions from Vehicles

By Peter Eastwood

Pulling together a wealth of knowledge that is currently only available through journal and conference papers, this book addresses a field of increasing international interest, research activity, and legislation.

978-0-7680-2060-1, 500 pp., Hardbound 2008.

**\$99.99 List**

Product Code: R-389



## Nonlinear and Hybrid Systems in Automotive Control

By Rolf Johansson, Anders Rantzer

With contributions from leading scientists in the field, this book presents an overview of research in this rapidly-expanding area. New approaches to solving theoretical problems, as well as numerous systems and control research issues, are covered.

978-0-7680-1137-1, 464 pp., Hardbound 2003.

**\$79.99 List**

Product Code: R-348

**Best Seller**



## Diesel Emissions and Their Control

By Magdi K. Khair, W. Addy Majewski

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.

978-0-7680-0674-2, 584 pp., Hardbound 2006.

**\$149.95 List**

Product Code: R-303

ebook available



## Improving Air Quality Progress and Challenges for the Auto Industry

By John K. Pearson

This book provides automotive engineers with practical information on the progress that has already been made, and the possibilities for further advances which can lead to increasing environmental improvements.

978-0-7680-0236-2, 238 pp., Hardbound 2001.

**\$29.99 List**

Product Code: R-232

ebook available



## Technologies for Near-Zero-Emission Gasoline-Powered Vehicles

By Fuquan Zhao

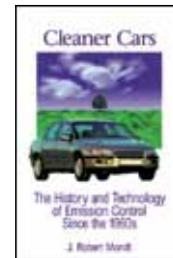
Written in response to the increasingly stringent emissions legislation, this book provides the reader with a concise introduction to technology developments in near-zero-emission gasoline-powered vehicles.

978-0-7680-1461-7, 480 pp., Hardbound 2006.

**\$99.99 List**

Product Code: R-359

ebook available



## Cleaner Cars

### The History and Technology of Emission Control Since the 1960s

By J. Robert Mondt

This book chronicles the technology that was developed and the progress that was made to achieve the goal of reducing air pollution from automobiles. Topics covered range from Clean Air Acts to today's computerized engine controls and alternative fuels.

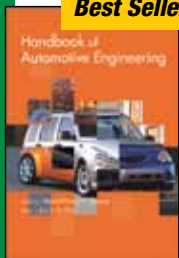
0-7680-0222-2, 280 pp., Paperbound 2000.

**\$29.95 List**

Product Code: R-226

ebook available

**Best Seller**



## Handbook of Automotive Engineering

By Ulrich W. Seiffert, Hans Hermann Braess

One of the most comprehensive encyclopedias of vehicle systems and design, this book features 1600 pages packed with information on automotive design and applications from over 40 subject matter experts.

978-0-7680-0783-1, 638 pp., Hardbound 2005.

**\$139.95 List**

Product Code: R-312



## The Automotive Industry and the Global Environment The Next 100 Years

By William Glaze, Dennis Schuetzle

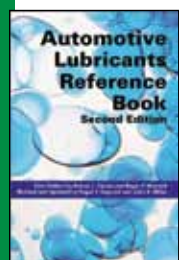
This book presents an analysis on the potential effects of globalization on the automotive industry and the environment. Energy challenges, market economy growth, and population dynamics are considered.

978-0-7680-0439-7, 72 pp., Paperbound 1999.

**\$19.99 List**

Product Code: R-263

ebook available



## Automotive Lubricants Reference Book, Second Edition

By Roger Frederick Haycock, Arthur J. Caines, John Hillier

This second edition includes updated and expanded details of the significant changes that the automotive lubricants have undergone since 1996 and provides a solid foundation to this important element of automotive engineering.

978-0-7680-1251-4, 760 pp., Hardbound 2004.

**\$129.99 List**

Product Code: R-354



## Emissions and Air Quality

By Christian Cozzarini, Hans P. Lenz

This book evaluates the current worldwide state of knowledge about the interrelationship between emissions and air quality. This study describes the contribution of passenger car and commercial vehicle traffic to local and global emission situations, and the consequences for the environment.

978-0-7680-0248-5, 140 pp., Paperbound 1999.

**\$29.99 List**

Product Code: R-237

ebook available



**Emissions From Two-Stroke Engines**

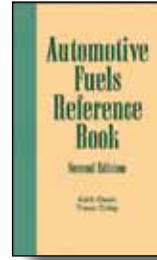
By Marco Nuti

"In the design of new CI engines, it is of paramount importance to reduce the pollutants and fuel consumption," writes author Marco Nuti. In this, the first book devoted entirely to exhaust emissions from two-stroke engines, Nuti examines the technical design issues that will determine how long the two-stroke engine survives into the twenty-first century.

978-0-7680-0215-7, 296 pp., 5 Sections, Paperbound 1998.

**\$69.95 List**

Product Code: R-223



**Automotive Fuels Reference Book, Second Edition**

By Keith Owen, Trevor Coley

The first edition of this best-selling, widely-used book was published in 1990. Since that time, significant progress has been made in fuels technology and major changes in the industry have occurred.

978-1-56091-589-8, 976 pp., Hardbound 1995.

**\$79.99 List**

Product Code: R-151



**Scrap Tires Disposal and Reuse**

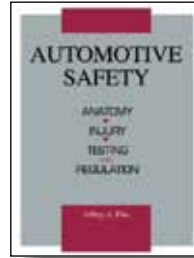
By Robert H. Snyder

This publication details the historical, technological, and economic issues related to the scrap tire industry, and the manner in which the scrap tire problem is addressed. The book provides advice on how scrap tires can be used for fuels, sealants, rubber mats, and more.

978-1-56091-682-6, 166 pp., Paperbound 1998.

**\$29.95 List**

Product Code: R-158



**Automotive Safety Anatomy, Injury, Testing, and Regulation**

By Jeffrey A. Pike

The material and concepts presented in this book will be useful as a basis to aid in the understanding of developments in safety performance and considerations.

978-1-56091-007-0, 184 pp., Paperbound 1990.

**\$79.95 List**

Product Code: R-103



**Reduced Emissions and Fuel Consumption in Automobile Engines**

By Fred Schafer, Richard van Basshuysen

This book covers the underlying processes which cause pollutant emissions and explores possibilities for their reduction.

978-1-56091-681-9, 206 pp., Hardbound 1995.

**\$5.00 List**

Product Code: R-157



**The Basic Design of Two-Stroke Engines**

By Gordon P. Blair

Intended for automotive designers, students and anyone seeking a better understanding of this fascinating engine, this book is a hands-on information source on the design of two-stroke engines.

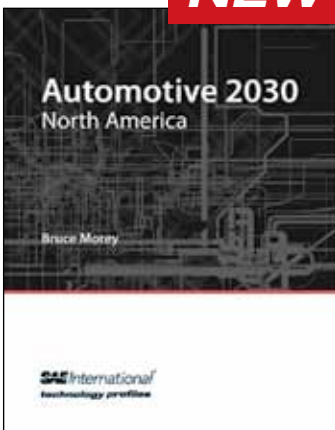
1-56091-008-9, 692 pp., Hardbound 1990.

**\$79.95 List**

Product Code: R-104



**NEW**



**Automotive 2030—North America**

By Bruce Morey

The current rapid rate of innovation in the automotive industry is primarily fueled by the need to improve fuel economy and reduce emissions, increase use of electronics for infotainment and safety, and global development. This full-color book delves into these megatrends to arm decision-makers with information that will help them remain competitive in the North American automotive market for the next 20 years.

The first third of the book covers improvements to existing technologies—engines, transmissions, bodies and materials—for better fuel economy. The second portion of the book delves into alternate fuel sources for vehicles and associated technologies. The focus of the final third of the book is the emergence of the smart car. Readers will come away with a renewed understanding of the complicated set of trends that will affect the automotive industry for the next 20 years, and how to effectively address them.

With more than 20 years of technology development, research, and management experience, author Morey brings a unique forward-looking perspective on these critical topics.

ISBN: 978-0-7680-5727-0, 166 pp., Paperbound 2011.

**\$99.00 List**

Product Code T-127



**NEW**

## Green Technologies and Connectivity in the Mobility Industry SET



### **Green Technologies and Connectivity in the Mobility Industry SET**

*By Dr. Andrew Brown, Jr.*

This set includes two books, edited by Delphi's Chief Technology Officer Dr. Andrew Brown, Jr., which explore some of the most significant challenges currently facing the automotive industry—building greener and more connected vehicles. Both books each include 20 SAE technical papers on their respective topics, originally published from 2009 through 2011.

*Green Technologies and the Mobility Industry*

Showcases how the mobility industry is developing greener products and staying responsive – if not ahead of – new standards and legal requirements.

*Connectivity and the Mobility Industry*

Covers such topics as vehicle-to-vehicle communications, telematics, and autonomous driving. It also includes three original articles on automotive connectivity, written by various industry experts.

**Buy a Combination of Books and Save!**

These books are part of a trilogy that can be purchased in other two-book combinations as follows:

*Green Technologies and Active Safety in the Mobility Industry*

*Active Safety and Connectivity in the Mobility Industry*

**Buy the Entire Trilogy and Save the Most!**

*Green, Safe & Connected: The Future of Mobility*

ISBN: 978-0-7680-7379-9, Paperbound 2011.

**\$179.95 List**

Product Code PT-146\_148.SET

**NEW**

## Active Safety and Connectivity in the Mobility Industry SET



### **Active Safety and Connectivity in the Mobility Industry**

*By Dr. Andrew Brown, Jr.*

This set includes two books, edited by Delphi's Chief Technology Officer Dr. Andrew Brown, Jr., which explore some of the most significant challenges currently facing the automotive industry—building safer and more connected vehicles. These books each include 20 SAE technical papers on their respective topics, originally published from 2009 through 2011.

*Active Safety and the Mobility Industry*

Details the latest innovations and trends in active safety technology and driver distraction prevention techniques.

*Connectivity and the Mobility Industry*

Covers such topics as vehicle-to-vehicle communications, telematics, and autonomous driving. It also includes three original articles on automotive connectivity, written by various industry experts.

**Buy a Combination of Books and Save!**

These books are part of a trilogy that can be purchased in other two-book combinations as follows:

*Green Technologies and Active Safety in the Mobility Industry*

*Green Technologies and Connectivity in the Mobility Industry*

**Buy the Entire Trilogy and Save the Most!**

*Green, Safe & Connected: The Future of Mobility*

ISBN: 978-0-7680-7380-5, Paperbound 2011.

**\$179.95 List**

Product Code PT-147\_148.SET

**NEW**



ebook  
available

## Green Technologies and the Mobility Industry

By Dr. Andrew Brown, Jr.

This book features 20 SAE technical papers, originally published in 2009 and 2010, which showcase how the mobility industry is developing greener products and staying responsive – if not ahead of – new standards and legal requirements. These papers were selected by SAE International's 2010 President Dr. Andrew Brown Jr., Executive Director and Chief Technologist for Delphi Corporation.

Authored by international experts from both industry and academia, they cover a wide range of cutting-edge subjects including powertrain electrification, alternative fuels, new emissions standards and remediation strategies, nanotechnology, sustainability, in-vehicle networking, and how various countries are also stepping up to the "green challenge".

Green Technologies and the Mobility Industry also offers additional useful information: the most recent Delphi Worldwide Emissions Standards booklets, which will be shipped with the print version of this title, or as part of the PDF download, if you purchase the ebook version.

### Exclusive Multimedia Package

Watch Dr. Andrew Brown, Jr. describe the new trends in green mobility. Download a free SAE presentation on green technologies and the mobility industry. Challenging times: an interview with Dr. Andrew Brown, Jr.

This book is the first in the trilogy from SAE on "Safe, Green and Connected" vehicles in the mobility industry edited by Dr. Andrew Brown, Jr. The other two books in this trilogy are: *Active Safety in the Mobility Industry* and *Connectivity in the Mobility Industry*

### Buy a Combination of Books and Save!

This trilogy can be purchased in a combination of two books as follows:

*Green Technologies and Active Safety in the Mobility Industry*  
*Green Technologies and Connectivity in the Mobility Industry*  
*Active Safety and Connectivity in the Mobility Industry*

### Buy the Entire 3 Book Set and Save the Most!

*Green, Safe & Connected: The Future of Mobility*

ISBN: 978-0-7680-3494-3, 283 pp., Paperbound 2010.

**\$119.95 List**

Product Code PT-146



### Diesel Exhaust Aftertreatment 2000-2007

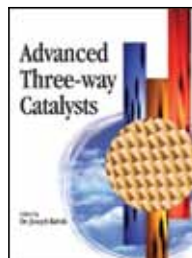
By Federico Millo, Magdi K. Khair

As diesel emission restrictions grow tighter, exhaust aftertreatment technologies must become more efficient and reliable. The 55 SAE technical papers in this compilation will guide engineers in their efforts to meet these new regulations by summarizing the latest diesel exhaust aftertreatment technology for both light- and heavy-duty applications.

978-0-7680-1709-0, 724 pp., Hardbound 2008.

**\$99.99 List**

Product Code: PT-126



### Advanced Three-way Catalysts

By Joseph E. Kubsh

The 51 SAE technical papers in this publication include efforts to improve the performance, durability, and cost effectiveness of the catalytic converter systems used on gasoline stoichiometric engines and the integration of these three-way catalysts into sophisticated powertrains capable of operating at near-zero tailpipe emission levels.

978-0-7680-1704-5, 606 pp., Paperbound 2006.

**\$59.99 List**

Product Code: PT-123



### Diesel Particulate Filter Technology

By Timothy V. Johnson

This book covers the latest and most important research in Diesel Particulate Filter (DPF) systems, focusing mainly on the advancements of the years 2002-2006. Editor Timothy V. Johnson selected the top 29 SAE papers covering the most significant research in this technology.

978-0-7680-1707-6, 374 pp., Paperbound 2007.

**\$99.95 List**

Product Code: PT-124



### Advanced Developments in Ultra-Clean Gasoline-Powered Vehicles

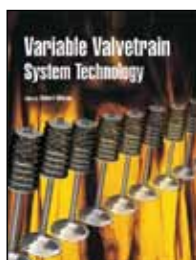
By Fuquan Zhao

This book is organized into 14 chapters and contains 53 technical papers. Each chapter begins with an overview of the chapter topic authored by an expert in the subject field, followed by the related SAE technical papers.

978-0-7680-1420-4, 700 pp., Hardbound 2004.

**\$5.00 List**

Product Code: PT-104



### Variable Valvetrain System Technology

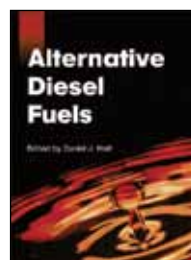
By Robert J. Moran

This reference contains the latest knowledge on vehicle development with CVT powertrains, transmission assembly design and performance, and the design and development of the five major components of CVT technology: launch device, variator systems, geartrains, control systems, and lubrication.

978-0-7680-1685-7, 328 pp., Paperbound 2006.

**\$69.99 List**

Product Code: PT-122



### Alternative Diesel Fuels

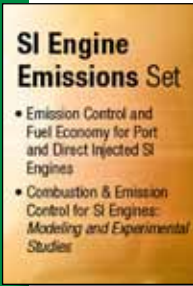
By Daniel J. Holt

With interest in the diesel engine increasing, the challenge lies in accomplishing greenhouse gas reductions while still maintaining the engine's durability. The 25 technical papers in this book discuss the findings and testing procedures used to evaluate alternative fuels and blends.

978-0-7680-1331-3, 320 pp., Paperbound 2004.

**\$49.99 List**

Product Code: PT-111



## SI Engine Emissions

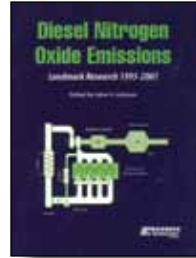
By John H. Johnson

This comprehensive set includes PT-91 *Emissions Control and Fuel Economy for Port and Direct Injected SI Engines* and PT-121 *Combustion & Emission Control for SI Engines*. Both books include a collection of 45 SAE technical papers.

978-0-7680-1658-1, 1100 pp., Paperbound 2005.

**\$39.99 List**

Product Code: PT-91.SET



## Diesel Nitrogen Oxide Emissions, Landmark Research 1995-2001

The 45 SAE technical papers in this book, published from 1995-2001, have been chosen as the most valuable on the topic of measurement and control of diesel nitrogen oxide emissions.

978-0-7680-1067-1, 552 pp., Paperbound 2002.

**\$5.00 List**

Product Code: PT-89



## Combustion & Emission Control for SI Engines

Modeling and Experimental Studies

By John H. Johnson

This book is a collection of 45 SAE technical papers that covers advanced emission measurements, combustion, exhaust after-treatment systems, fuel and lubricant effects on emissions, modeling of in-cylinder processes, and particle control and measurement.

978-0-7680-1545-4, 693 pp., Paperbound 2005.

**\$19.99 List**

Product Code: PT-121



**NEW**

## Honda R&D Technical Review: October 2011

The latest technical review from Honda features cutting-edge developments from the company's worldwide R&D team documented in 18 technical papers. Highlights include advancements in motorcycle technology, development of a nitrocarburized high-strength crankshaft, and studies on the influence of chassis friction on vehicle dynamic behavior, among others.

140 pp., PDF Only 2011.

**\$100.00 List**

Product Code: B-HON-010

ebook only



## Emission Control and Fuel Economy for Port and Direct Injected SI Engines

By John H. Johnson

This book is a collection of 45 SAE technical papers that covers the fundamentals of gasoline direct injection (DI) engine emissions and fuel economy, design variable effects on HC emissions, and advanced emission control technology and modeling approaches.

978-0-7680-1121-0, 689 pp., Paperbound 2005.

**\$19.99 List**

Product Code: PT-91



**NEW**

## 6th AVL International Commercial Powertrain Conference Proceedings

This books includes 21 papers from four session categories held at the AVL International Commercial Powertrain Conference, the premier forum for truck, agricultural and construction equipment manufacturers.

978-0-7680-6451-3, 178 pp., Paperbound 2011.

**\$119.95 List**

Product Code: B-AVL-001

ebook available



## Homogeneous Charge Compression Ignition (HCCI) Engines

By Fuquan Zhao, Thomas N. Asmus, Dennis N. Assanis, John E. Dec, James A. Eng, Paul M. Najt

This book gathers contributions from experts in both industry and academia, providing a basic introduction to the state-of-the-art of HCCI technology, a critical review of current HCCI research and development efforts, and perspective for the future.

978-0-7680-1123-4, 646 pp., Hardbound 2003.

**\$59.99 List**

Product Code: PT-94



**NEW**

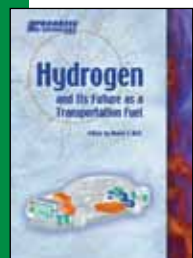
## Bosch Automotive Handbook, 8th Edition

This new edition of the best-selling, reference book includes more than 580 pages of new and revised content covering topics such as: hybrid drives, fuel cells, chassis control, active safety, and automotive electronics. Covering hundreds of automotive subjects, this handbook also contains more than 1,000 illustrations, diagrams, tables, and sectional drawings.

978-0-7680-4851-3, 1266 pp., Paperbound 2011.

**\$32.50 List**

Product Code: BOSCH8



## Hydrogen and Its Future as a Transportation Fuel

By Daniel J. Holt

This book collects 43 SAE technical papers covering the five years (1998-2002) of research on the uses of hydrogen as a transportation fuel. Contents Include: Hydrogen Issues, Internal Combustion Engines, Diesel Engines, Hybrid Vehicles, Fuel Cells and Hydrogen Storage and Generation

978-0-7680-1128-9, 200 pp., Paperbound 2003.

**\$69.99 List**

Product Code: PT-95



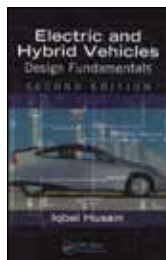
## Lectures of the 32nd International Vienna Motor Symposium

This two-volume set contains the lectures from one of the most prestigious conferences on engine development in the industry today. World renowned experts gather to discuss the current and future state of motor technology.

978-3-18-373512-9, 788 pp., 2011.

**\$311.00 List**

Product Code: B-913



**Electric & Hybrid Vehicles: Design Fundamentals**

2nd edition

By Iqbal Husain

Thoroughly updated to encompass the significant technological advances since the publication of the first edition, this second edition presents the design fundamentals, component sizing, and systems interactions of alternative vehicles.

978-1-4398117-5-7, 523 pp., Hardbound 2010.

**\$99.95 List**

Product Code: B-881



**Honda R&D Technical Review: October 2009**

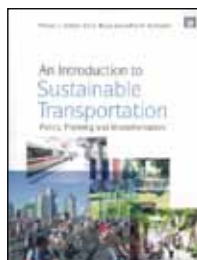
The 25 papers included in this e-book chronicle the best of Honda's documented technical advancements from April through October 2009 and cover automotive, motorcycle, power products, and other fundamental technologies. Full-color diagrams complement the text.

978-0-7680-5728-7, 181 pp., PDF Only 2009.

**\$100.00 List**

Product Code: B-HON-001

ebook only



**An Introduction to Sustainable Transportation**

Policy, Planning and Implementation

By Eric C. Bruun, Preston Schiller, Jeffrey R. Kenworthy

This essential multi-authored work reflects a new sustainable transportation planning paradigm. It explores the concepts of sustainable development and sustainable transportation.

978-1-84407-664-2, 400 pp., Paperbound 2010.

**\$39.95 List**

Product Code: B-899



**Modern Electric, Hybrid Electric, and Fuel Cell Vehicles**

Fundamentals, Theory, and Design, Second Edition

By Mehrdad Ehsani, Ali Emadi, Yimin Gao

Building on the foundation of the bestselling first edition, this second edition updates and expands its detailed coverage of the vehicle technologies that offer the most promising solutions to these issues affecting the automotive industry.

978-1-4200539-8-2, 557 pp., Hardbound 2009.

**\$129.95 List**

Product Code: B-884



**Honda R&D Technical Review: April 2010**

The 27 papers included in this volume chronicle the best of Honda's documented technical advancements from October 2009 through April 2010 and cover automotive, motorcycle, power products, and other fundamental technologies. Full-color diagrams complement the text.

978-0-7680-5730-0, 207 pp., PDF Only 2010.

**\$100.00 List**

Product Code: B-HON-002

ebook only



**Honda R&D Technical Review: April 2009**

This unique book gives rare insight into the work of Honda's worldwide R&D team, covering technical developments from October 2008 through March 2009. With special focus on fuel cell vehicles, the 33 papers included also cover other automotive topics, as well as motorcycle, power products, and other fundamental technologies.

978-0-7680-2162-2, 246 pp., Paperbound 2009.

**\$49.95 List**

Product Code: B-HON-007

ebook available



**Propulsion Systems for Hybrid Cars, 2nd Edition**

By John M. Miller

Completely updated with the most current topics of interest on plug-in hybrid and battery electrics, this new book provides comprehensive coverage on all aspects of the hybrid vehicle design—from its power plant and energy storage systems, to supporting chassis subsystems necessary for realizing hybrid modes of operation.

978-1-84919-147-0, 608 pp., Paperbound 2010.

**\$110.00 List**

Product Code: B-IET-001



**System Innovation for Sustainability 2**

By Theo Geerken, Mads Borup

This book focuses on the movement towards sustainable personal mobility, using case studies analyzed from a system perspective to examine the changes required to increase sustainability.

978-1-907643-16-3, 184 pp., PDF Only 2009.

**\$65.00 List**

Product Code: B-GRE-001

ebook only



**Plastics and the Environment**

By Francis Gardiner, Eleanor Garmson

This book provides readers with a look into the environmental issues of plastics products throughout the complete product lifecycle, from material selection to product design to recycling. Written by some of the leading researchers and practitioners on this topic, it is a distinctive look at how to maximize profitability through environmental compliance in the plastics supply chain.

978-1-84735-491-4, 142 pp., Hardbound 2010.

**\$165.00 List**

Product Code: B-RAP-004

ebook available



**Honda R&D Technical Review: April 2008**

This unique e-book chronicles the top Honda technical developments from October 2007 through March 2008. The 25 papers included give rare insight into the Honda's worldwide R&D team and cover automotive, motorcycle, power products, and other fundamental technologies. Full-color diagrams complement the text.

978-0-7680-2068-7, Paperbound 2008.

**\$49.95 List**

Product Code: B-HON-005

ebook available

## Environment



### Transport Revolutions Moving People and Freight Without Oil

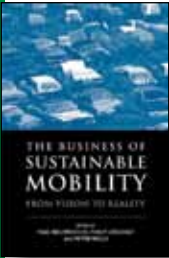
By Anthony Perl, Richard Gilbert

This book sets out the challenges that will soon threaten modern society's dependence on low-cost transport in light of the problems posed by oil supply and climate change.

978-1-84407-248-4, 368 pp., Hardbound 2008.

**\$26.95 List**

Product Code: B-898



### The Business of Sustainable Mobility from Vision to Reality

By Paul Nieuwenhuis, Philip Vergragt, Peter Wells

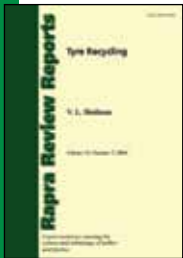
This book breaks through the conventional boundary between engineering and the social sciences, and the contributors represent both sides of this divide, combining economists, engineers, geographers, designers, and others.

978-1-907643-15-6, 258 pp., PDF Only 2006.

**\$75.00 List**

Product Code: B-GRE-002

ebook  
only



### Tyre Recycling

By V.L. Shulman

This book, primarily based upon information from the EU, summarizes current practices of tire recycling and explores innovative alternatives available to simply disposing of tires.

978-1-85957-489-8, 144 pp., Paperbound 2004.

**\$153.00 List**

Product Code: B-RAP-003

ebook  
available



### Passenger Vehicles and Light Trucks Vehicle Inspection Handbook

Written by the American Association of Motor Vehicle Administrators (AAMVA), in partnership with the Canadian Council of Motor Transport Administrators (CCMTA). Published by American Association of Motor Vehicle Administrators. Distributed by SAE International.

74 pp., Paperbound 1999.

**\$19.99 List**

Product Code: B-837



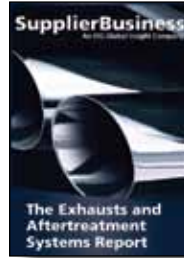
### Motorcycles Vehicle Inspection Handbook

Written by the American Association of Motor Vehicle Administrators (AAMVA), in partnership with the Canadian Council of Motor Transport Administrators (CCMTA), this handbook is now available through the SAE International Bookstore. Published by American Association of Motor Vehicle Administrators. Distributed by SAE International.

34 pp., Paperbound 1999.

**\$29.99 List**

Product Code: B-840



### The Exhausts and After Treatment Systems Report

This Report looks at the current drivers and future trends in this crucial sector. The current state of the market is examined along with global emissions control regulations and an equipment overview of exhausts and after-treatment systems. The report profiles 18 of the key players in this market segment.

132 pp., PDF Only 2010.

**\$1750.00 List**

Product Code: MR-SB-062

ebook  
only

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