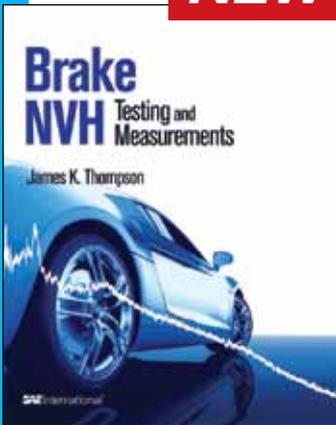


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Brake NVH: Testing and Measurement

By James K. Thompson

As other vehicle systems have become more refined, more attention must be placed on brake NVH issues because they can cause a negative customer experience. From the laboratory to the road, the use of technology as well as further study by engineers is helping to lessen noise, judder, and vibration in cars.

This book provides readers with a fundamental understanding of current practices for measuring and testing brake NVH. From coverage of basic definitions and concepts to in-depth analysis of on-road testing procedures, it will serve as a comprehensive reference guide for brake test technicians, test engineers, lab managers, and others who work on making brakes quieter, smoother, more refined, and more reliable. Readers will learn how to test for brake noise, what tools to use, and which recent standards and practices have led to the successful measurement of brake noise and vibration.

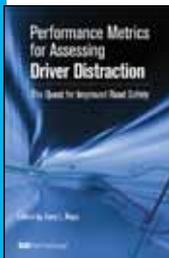
Topics covered include:

- Common brake noise and vibration issues
- Instrumentation, transducers, and other technical details
- Measurement practice for laboratory and on-road testing
- Brake pad damping and natural frequencies
- Current trends in brake noise and vibration measurements

ISBN: 978-0-7680-3480-6, 156 pp., Hardbound 2011.

\$79.95 List

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Performance Metrics for Assessing Driver Distraction: The Quest for Improved Road Safety

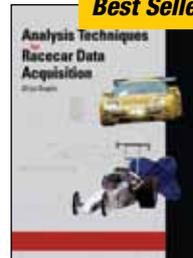
By Gary L. Rupp

This book focuses on the study of secondary task demands imposed by in-vehicle devices on the driver while driving. It provides a mechanism for researchers to evaluate how in-vehicle devices such as navigation systems – as well as other devices such as cell phones – affect driver distraction and impact safety.

978-0-7680-3496-7, 264 pp., Paperbound 2010.

\$99.95 List

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Best Seller

Analysis Techniques for Racecar Data Acquisition

By Jorge Segers

Data acquisition has become an invaluable tool for establishing racecar - and car/driver - performance. This book covers data acquisition technology and helps readers use this data to gain a key advantage on the racetrack.

978-0-7680-1655-0, 198 pp., Paperbound 2008.

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Best Seller

Engine Combustion: Pressure Measurement and Analysis

By David R. Rogers

This book provides practical information on measuring, analyzing, and qualifying combustion data, as well as details on hardware and software requirements and system components.

978-0-7680-1963-6, 332 pp., Hardbound 2010.

\$79.95 List

Product Code: R-388



Engine Testing, Third Edition Theory & Practice

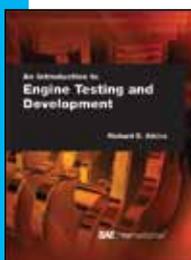
By Michael James Plint, Tony Martyr

This book brings together the large and scattered body of information on the theory and practice of engine testing, to which any engineer responsible for work of this kind must have access. This updated third edition features substantially revised chapters, a number of new chapters, and a new order of topics.

978-0-7680-1850-9, 468 pp., Hardbound 2007.

\$89.99 List

Product Code: R-382



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An Introduction to Engine Testing and Development

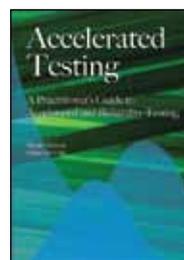
By Richard D. Atkins

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.

978-0-7680-2099-1, 308 pp., Hardbound 2009.

\$79.95 List

Product Code: R-344



Accelerated Testing A Practitioner's Guide to Accelerated and Reliability Testing

By Harry L. Schwab, Bryan L. Dodson

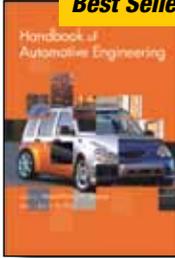
This comprehensive reference publication equips the reader with the latest, most practical knowledge of accelerated testing, and includes testing fundamentals, plans and models, and equipment and methods most commonly used in this important discipline.

978-0-7680-0690-2, 268 pp., Hardbound 2006.

\$79.95 List

Product Code: R-304

Best Seller



Handbook of Automotive Engineering

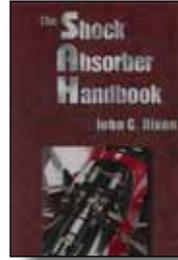
By Ulrich W. Seiffert, Hans Hermann Braess

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 Shock Absorber Handbook

By John C. Dixon

Among the subjects highlighted are fluid dynamics, valve characteristics, damper characteristics, installation and motion ratios, influence on vehicle ride and handling, testing machines, and methods of laboratory testing.

978-0-7680-0050-4, 495 pp., Paperbound 1999.

\$69.95 List

Product Code: R-176

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Practical Diesel-Engine Combustion Analysis

By Bertrand Hsu

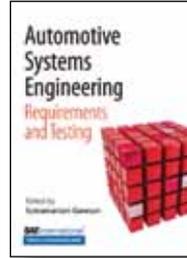
This book examines some basic characteristics of diesel engine combustion process, and describes the commonly used tool to analyze combustion - heat release analysis. In addition,

978-0-7680-0914-9, 160 pp., Hardbound 2002.

\$59.95 List

Product Code: R-327

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Automotive Systems Engineering - Requirements and Testing

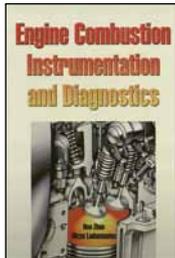
By Subramaniam Ganesan

This book is the second in a series of four volumes on this subject and features 11 papers, published between 2000-2010, that address the challenges and importance of requirements and testing in systems engineering, stressing the use of advanced tools and approaches.

978-0-7680-5724-9, 119 pp., Paperbound 2010.

\$99.95 List

Product Code: PT-145/2



Engine Combustion Instrumentation and Diagnostics

By Nicos Ladommatos, Hua Zhao

This book provides a complete description of instrumentation and in-cylinder measurement techniques for internal combustion engines.

978-0-7680-0665-0, 842 pp., Hardbound 2001.

\$99.95 List

Product Code: R-264

ebook
available



Event Data Recorders A Decade of Innovation

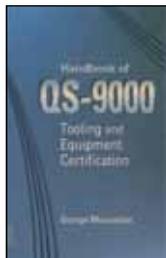
By H. Clay Gabler, John A. Hinch, John Steiner

This book contains 28 landmark papers, providing a comprehensive look at event data recorder (EDR) technology for cars, light trucks, and heavy vehicles.

978-0-7680-2066-3, 488 pp., Hardbound 2008.

\$79.99 List

Product Code: PT-139



Handbook of QS-9000 Tooling and Equipment Certification

By George Mouradian

This book presents an overall picture of the quality and reliability processes and provides the methods and techniques necessary to obtain QS-9000TE registration. With useful tables, diagrams, and checklists, the book can also be used as a training manual.

978-0-7680-0527-1, 250 pp., Hardbound 2000.

\$5.00 List

Product Code: R-265



Crash Reconstruction Research 20 Years of Progress (1988-2007)

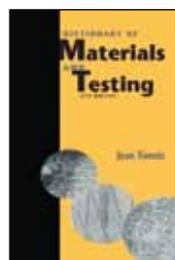
By Michael S. Varat

This book features 47 papers that have presented significant steps forward, focusing on the following areas: Planar Impact Mechanics; Stiffness Modeling; Crash Pulse Analysis; Structural Restitution.

978-0-7680-2052-6, 756 pp., Paperbound 2008.

\$119.95 List

Product Code: PT-138



Dictionary of Materials and Testing, Second Edition

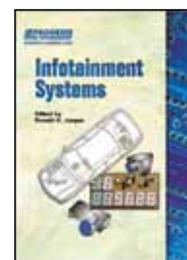
Advances in the fields of materials and testing have introduced hundreds of concepts and terms. This second edition emphasizes "engineered" materials that can withstand stress or unusual environments for an extended period of time.

978-0-7680-0531-8, 450 pp., Hardbound 2000.

\$39.99 List

Product Code: R-257

ebook
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Infotainment Systems

By Ronald K. Jurgen

This book contains 87 papers covering the past eight years (2000-2007) of engineering developments related to infotainment systems.

978-0-7680-1943-8, 742 pp., Hardbound 2007.

\$49.99 List

Product Code: PT-135

Tests and Testing



Human Subject Crash Testing Innovations and Advances

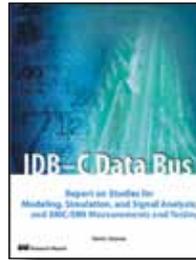
By Lawrence Nordhoff, Gunter Siegmund, Michael D. Freeman

Covering more than 50 years of research (from 1955 through 2006), this book includes numerous landmark SAE papers, as well as papers from other conference proceedings.

978-0-7680-1931-5, 977 pp., 28 Papers, Paperbound 2007.

\$99.99 List

Product Code: PT-134



IDB-C Data Bus

Report on Studies for Modeling, Simulation, and Signal Analysis; and EMC/EMI Measurements and Testing

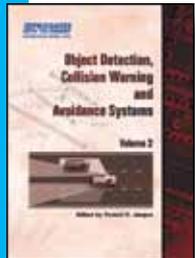
By Daniel J. Guzman

This report provides an analysis of the IDB-C network at the Subsystem level and at the vehicle level, using data comparison between modeling and simulation of the network and measurement and analysis on physical systems.

978-0-7680-0883-8, 150 pp., Paperbound 2002.

\$5.00 List

Product Code: RR-014



Object Detection, Collision Warning and Avoidance Systems, Volume 2

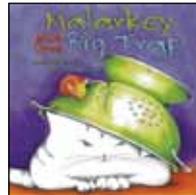
By Ronald K. Jurgen

This book contains 51 papers covering the past eight years (1999-2006) of research on object detection, collision warning, and collision avoidance.

978-0-7680-1810-3, 432 pp., Hardbound 2007.

\$49.99 List

Product Code: PT-133



Malarkey and the Big Trap

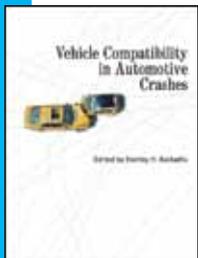
Stephen Krensky

In this book, young readers will follow this crazy cat's antics while he tries to build a better mousetrap. During the fun, readers will explore the behaviors of different components, like a pinball, ball traps and bumpers, how launch position can affect the whole process.

978-0-7680-3487-5, 32 pp., Paperbound 2011.

\$11.95

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Vehicle Compatibility in Automotive Crashes

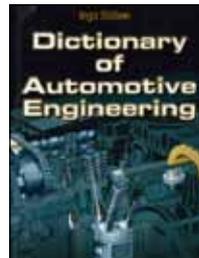
By Stanley H. Backaitis

This two-part compendium includes 44 technical papers from SAE International and the International Technical Conference on the Enhanced Safety of Vehicles, published from the early 1970s through 2004.

978-0-7680-1645-1, 500 pp., Paperbound 2005.

\$19.99 List

Product Code: PT-102



Dictionary of Automotive Engineering

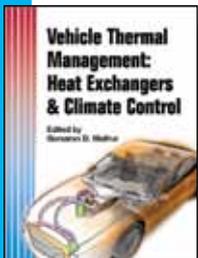
By Ingo Stuben

Unlike standard dictionaries, this specialized dictionary provides valuable aid to the expert (engineer or mechanic), student, and other interested parties who seek a better understanding of technical terms and precise definitions specific to automobiles.

978-3-8169-2941-3, 328 pp., Paperbound 2010.

\$54.00 List

Product Code: B-891



Vehicle Thermal Management Heat Exchangers and Climate Control

By Gursaran D. Mathur

This book is an essential resource for engineers and designers working on thermal systems, presenting 45 of the most relevant technical papers focusing on this important vehicle component.

978-0-7680-1445-7, 420 pp., Paperbound 2004.

\$99.95 List

Product Code: PT-97



Propulsion Systems for Hybrid Cars, 2nd Edition

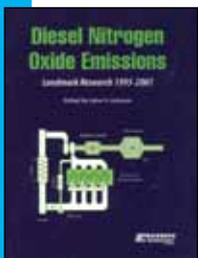
By John M. Miller

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



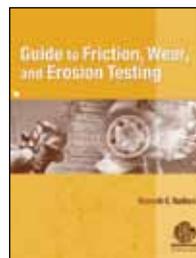
Diesel Nitrogen Oxide Emissions, Landmark Research 1995-2001

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



Guide to Friction, Wear, and Erosion Testing

By Kenneth G. Budinski

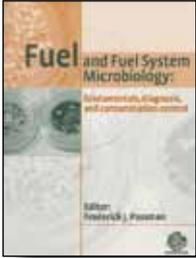
No other book provides the details of how to conduct tribotests, including their implications, how to avoid pitfalls, and which are most useful. Manual 56 is an excellent resource for newcomers to tribology and a useful reference for practicing tribologists.

978-0-8031-6249-5, 141 pp., Paperbound 2007.

\$77.00 List

Product Code: B-ASTM-005

eBook
available



Fuel and Fuel System Microbiology: Fundamentals, Diagnosis, and Contamination Control

By Frederick J. Passman

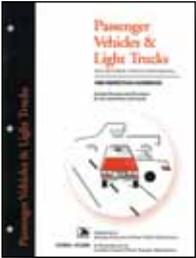
This new ASTM manual brings together the various test procedures that technicians need to diagnose the contamination in fuels and fuel systems. It also suggests the means for detection and control of microbial contamination.

978-0-8031-4553-5, 122 pp., Paperbound 2003.

\$98.00 List

Product Code: B-ASTM-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., 12 Chapters, 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., 12 Chapters, Paperbound 1999.

\$29.99 List

Product Code: B-840

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