

## 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.

Performance Metrics for Assessing Driver Distraction, which features the work presented by international experts at the 4th International Driver Metrics Workshop, in June 2008, offers a summary of the current state of driver metrics research.

Edited by workshop moderator Dr. Gary L. Rupp, the book introduces vital information to support the design of in-vehicle information and communication systems (IVIS).

Topics covered include:

- Driver object and event detection
- Peripheral detection tasks (PDT)
- Tactile-based detection tasks (TDT)
- Modified Sternberg method for assessing visual and cognitive load of in-vehicle tasks
- Modified Sternberg method for assessing peripheral detection task and lane change tests
- The relationship between performance metrics and crash risk
- Characterizing driver behaviors observed in naturalist driving studies
- Developing metrics from lane change test studies

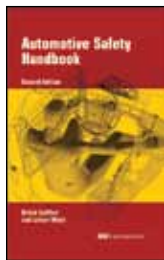
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Exclusive Interview with author, Dr. Linda Angell. Visit [books.sae.org/book-r-402](http://books.sae.org/book-r-402)

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

**\$99.95 List**

Product Code R-402



## Automotive Safety Handbook, Second Edition

By Lothar Wech, Ulrich W. Seiffert

The book features thorough discussion of the interrelationships among the occupant, the vehicle, and the restraint system (in frontal, lateral, and rear impacts and rollover), and provides updated information on many topics, including accident avoidance, pedestrian protection, and compatibility.

978-0-7680-1798-4, 306 pp., Hardbound 2007.

**\$89.95 List**

Product Code: R-377

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## Digital Human Modeling for Vehicle and Workplace Design

By Don B. Chaffin

This book presents seven case studies in which digital human models were used to solve different types of physical problems associated with proposed human-machine interaction tasks.

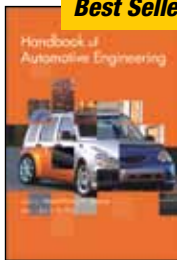
978-0-7680-0687-2, 202 pp., Hardbound 2001.

**\$49.99 List**

Product Code: R-276

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**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



## Child Anthropometry for Improved Vehicle Occupant Safety

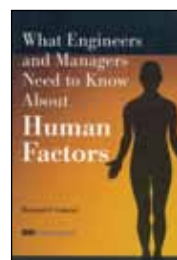
By Kathleen DeSantis Klinich, Matthew Reed

This book includes 14 important papers which provide a comprehensive overview of the methods for collecting, analyzing, and applying child anthropometry data for crash safety purposes.

978-0-7680-2172-1, 424 pp., Paperbound 2010.

**\$89.95 List**

Product Code: PT-142



## What Engineers and Managers Need to Know About Human Factors

By Richard F. Gabriel

This book is not intended to train the methods of human factors, but rather to provide knowledge that will enable engineers and managers to determine if including human factors in the planning and execution of product design is justified.

978-0-7680-0975-0, 268 pp., Paperbound 2003.

**\$49.95 List**

Product Code: R-331

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## Neck Injury Biomechanics

By Jeffrey A. Pike

This book includes 40 noteworthy papers covering more than 15 years (1993 to 2009) of research on the biomechanics of neck injuries. The book also includes an introductory background section that ties together concepts of anatomy, injuries, and radiographic imaging so that the research featured in the book will be more readable and useful to a wide range of safety professionals.

978-0-7680-2163-9, 626 pp., Paperbound 2009.

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

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

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

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

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

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

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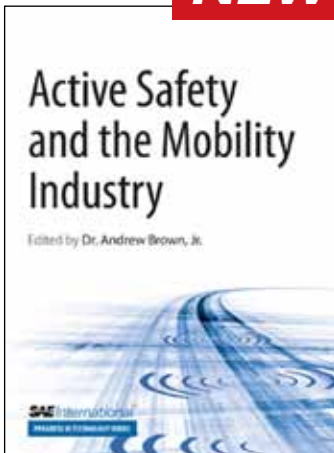
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## Active Safety and the Mobility Industry

By Dr. Andrew Brown, Jr.

Safety is a key element in new vehicle design and active safety, together with driver distraction prevention, has become one of the most talked about issues in the mobility industry.

This book features 20 SAE technical papers, originally published in 2009 and 2010, which showcase how the mobility industry is considering all aspects of safety in designing and producing safer vehicles. These papers were selected by SAE International's 2010 President Dr. Andrew Brown Jr., Executive Director and Chief Technologist for Delphi Corporation.

The contents of this book explore a variety of safety issues in the areas of market and consumer preferences; driver assistance and modeling; active safety system, crash sensing and sensor fusion; communications; and road safety. The publication also includes a number of articles authored by renowned experts in the field of active safety.

This book is the second 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:

*Green Technologies and the Mobility Industry*

*Connectivity and the Mobility Industry*

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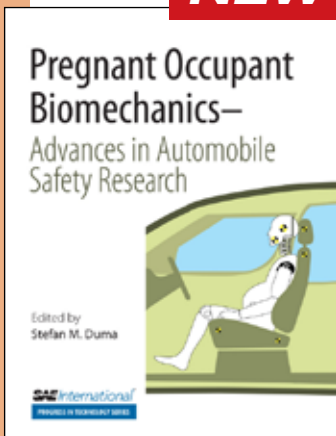
*Green, Safe & Connected: The Future of Mobility*

ISBN: 978-0-7680-4766-0, 268 pp., Paperbound 2011.

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## Pregnant Occupant Biomechanics Advances in Automobile Safety Research

By *Stefan Duma*

This ground-breaking book provides substantial new analysis and summary data about pregnant occupant biomechanics, and will serve as a critical asset to anyone in the field of automobile safety. The overall goal of this book is to provide the reader with a complete resource for issues relating to the pregnant occupant.

This multi-authored book is thoroughly vetted and includes chapter contributions from highly qualified practitioners in the field. A total of 19 technical papers are featured and are broken into six chapters. Each chapter begins with a brief summary and analysis of the research for that topic, and is followed by a selection of references. The remainder of the chapter includes a selection of the very best full-length technical papers on the topic, which are intended to provide depth and compliment the new material.

ISBN: 978-0-7680-4849-0, 304 pp., Hardbound 2011.

**\$119.95 List**

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## Human Subject Crash Testing Innovations and Advances

By *Lawrence Nordhoff, Gunter Siegmund,  
Michael D. Freeman*

This book includes 42 of the most important historical and current studies which used living human subjects in frontal, side, and rear-end impacts.

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

**\$99.99 List**

Product Code: PT-134



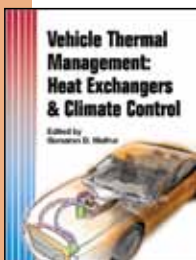
## CAESAR Final Report

This final report provides a detailed explanation on the survey instruments used, how the study was conducted and who was included to achieve a valid demographic sampling.

978-0-7680-1144-9, 270 pp., Paperbound 2003.

**\$99.95 List**

Product Code: RR-017



## 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



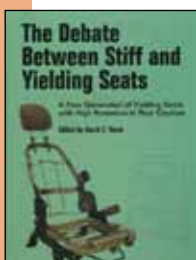
## CAESAR Final Report - CD-ROM

This final report provides detailed explanation on the survey instruments used, how the study was conducted and who was included to achieve a valid demographic sampling.

978-0-7680-1144-9, 270 pp., CD-ROM 2002.

**\$99.95 List**

Product Code: RR-017CD



## The Debate Between Stiff and Yielding Seats

By *David C. Viano*

The 32 technical papers this publication analyzes the effects of stiff and yielding seats on various crash scenarios, followed by an exploration of high retention seats.

978-0-7680-1258-3, 648 pp., Hardbound 2004.

**\$9.99 List**

Product Code: PT-106



## Technology for a Quieter America

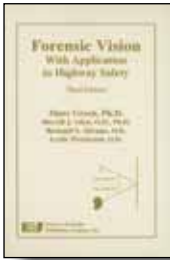
This new book examines the most commonly identified sources of noise, how they are characterized, and efforts that have been made to reduce noise emissions and experiences.

978-0-309-15632-5, 216 pp., Paperbound 2010.

**\$44.00 List**

Product Code: B-890

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## Forensic Vision with Application to Highway Safety with CD-ROM, 3rd Edition

By Marc Green, Merrill Allen, Bernard S. Abrams, Leslie Weintraub, J. Vernon Odom

Written for attorneys, law enforcement personnel, optometrists, highway engineers, automobile manufacturers, legislators, expert witnesses, and other related professionals, this book is your reference for accident cases with a vision component.

978-1-033264-54-3, 496 pp., 2008.

**\$129.00 List**

Product Code: B-885



## Forensic Aspects of Vision and Highway Safety

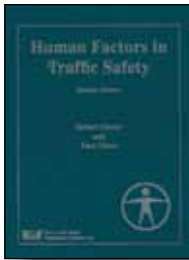
By Merrill J. Allen, Bernard S. Abrams, Arthur P. Ginsburg, Leslie Weintraub

This book brings together research and analyses to identify the factors that contribute to the impaired vision of the driver. It takes a practical look at what is needed to improve the visual aspects of the driving task.

0-913875-24-4, 496 pp., Hardbound 1996.

**\$9.99 List**

Product Code: B-732



## Human Factors in Traffic Safety, Second Edition

By Robert Dewar, Paul Olson

In this update of the 2002 edition, the authors introduce the field of human factors with daunting traffic accident statistics and encouraging progress made regarding transportation design.

978-1-933264-24-0, 548 pp., Hardbound 2008.

**\$119.00 List**

Product Code: B-871



## Cockpits & Dashboards Report

This report looks at future trends and innovations in the cockpit of tomorrow, including the design and styling influences from concept cars, innovations in HMI technology, and the change in direction for Telematics services, among others. The report also features in-depth profiles 19 key suppliers.

115 pp., PDF Only 2011.

**\$1830.00 List**

Product Code: MR-SB-082

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