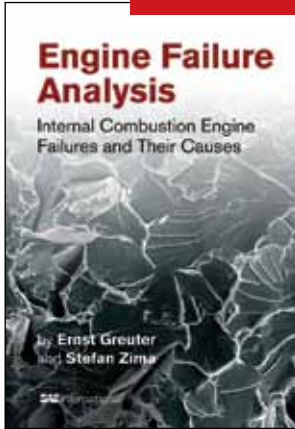


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## Engine Failure Analysis—Internal Combustion Engine Failures and Their Causes

By Ernst Greuter, Stefan Zima

Engine failures result from a complex set of conditions, effects, and situations. To understand why engines fail and remedy those failures, one must understand how engine components are designed and manufactured, how they function, and how they interact with other engine components. To this end, this book examines how engine components are designed and how they function, along with their physical and technical properties.

Translated from a popular German reference work, this English edition sheds light on determining engine failure and remedies. The authors present a selection of engine failures, investigate and evaluate why they failed, and provide guidance on how to prevent such failures. A large range of possible engine failures is presented in a comprehensive, readily understandable manner, free of manufacturer bias.

The scope of engines covered includes general-purpose engines found in heavy commercial vehicles, railway locomotives and vehicles, electrical generators, prime movers, and marine engines. Such engines are technical precursors to automotive engines.

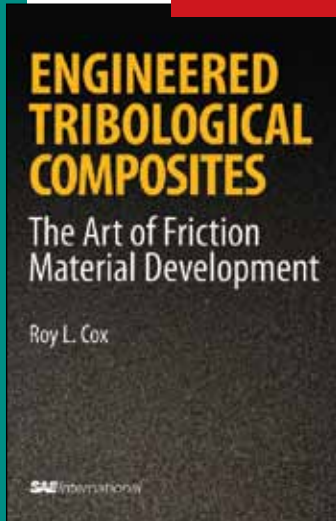
This book is for all who deal with engine failures: those who work in repair shops, shipyards, engineering consultancies, insurance companies and technical oversight organizations, as well as R&D departments at engine and component manufacturers. Researchers, academics, and students will learn how even the theoretically impossible can—and will—happen.

ISBN: 978-0-7680-0885-2, Hardbound 2012.

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## Engineered Tribological Composites

By Roy Cox

Roy Cox provides readers with a thorough presentation of the topic, beginning with the earliest work on brakes by Froom in the early 1900s and friction studies by daVinci in the 1400s. From there, details about the processes of wear and the components of tribological systems are presented. Methods of manufacturing friction materials are described, and the elements of friction material are detailed—binders, fibers, abrasives, and lubricants.

A large portion of the book delves deeply into materials for binders, resins, fibers, abrasives, lubricants, and fillers, providing background on the various materials, their pros and cons, and numerous ways they can be applied to friction systems. Much of this discussion focuses on the compositional makeup and effects of ingredients as they relate to the wear and friction performance of the final product.

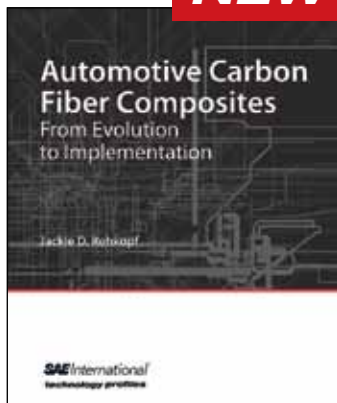
Readers will gain a solid background about tribology, as well as a solid understanding of matrices, fibers and additives that make up engineered tribological composites. They will learn how manufacturing affects these composites, along with how friction and wear affect those materials. They will gain a better understanding of which materials provide the optimum balance of cost, friction and wear for various applications, enabling them to better create and apply engineered tribological composites for whatever application is at hand.

ISBN: 978-0-7680-3485-1, 524 pp.,

Hardbound 2011.

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## Automotive Carbon Fiber Composites From Evolution to Implementation

By Jackie D. Rehkopf

The development of new materials that are technically and economically viable is no small endeavor. The risks, costs, and time involved in research are usually so high that only governments or private consortia can bear them.

And so it has been with the trajectory of carbon fiber reinforced composites, which are capable of providing the lightweighting needed for fuel efficiency, and the mechanical strength required for safety. After a long development cycle, this material is now being widely used by the military, in commercial aircraft, and in the automotive industry.

*Automotive Carbon Fiber Composites: From Evolution to Implementation*, written by Dr. Jackie Rehkopf, senior researcher at Plasan Carbon Composites, gives a high-level summary on carbon reinforced fiber composites specific to the automotive industry in today's market and its vision for the next 5 to 10 years. It begins with a comprehensive and easy-to-read overview of how composites started to be investigated as a possible alternative to metals, mostly driven by military demands, going on to cover:

- Fiber and resin types for automotive applications
- Composite constructions
- Manufacturing processes
- Machining and joining
- Reclaiming and recycling of these materials, among other topics.

The title approaches the future with the realistic optimism of those who work with the challenges of creating new solutions to problems that will stay with us for some time to come: the need to conserve energy and make transportation ever more affordable without the loss of safety.

Carbon fiber reinforced composites have demonstrated real value in positively addressing these issues.

*Automotive Carbon Fiber Composites: From Evolution to Implementation* is an excellent guide for those involved in technical material strategy and research, as well as those who need to understand the basics of this subject to support better business decisions.

ISBN: 978-0-7680-3495-0, 128 pp., Paperbound 2011.

**\$99.00 List Price**

Product Code T-124

**Best Seller**eBook  
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### Care and Repair of Advanced Composites, Second Edition

By Keith B. Armstrong, William Cole, Graham Bevan

This second edition has been extensively updated to keep pace with the growing use of composite materials in commercial aviation.

978-0-7680-1062-6, 664 pp., Hardbound 2005.

**\$89.95 List**

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### Multiaxial Fatigue

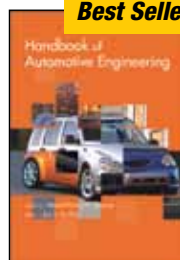
By Darrell Socie, Gary Marquis

This book provides practicing engineers, researchers, and students with a working knowledge of the fatigue design process and models under multiaxial states of stress and strain.

978-0-7680-0453-3, 502 pp., 10 Chapters, Hardbound 1999.

**\$89.95 List**

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### 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

eBook  
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### A Glossary of Corrosion-Related Terms Used in Science and Industry

By Mark S. Vukosovich

This glossary features definitions for over 4,000 specialized terms related to corrosion and corrosion prevention/control. Its coverage encompasses not only the fundamental terms commonly used in corrosion science and lesser-known, industry-specific jargon.

1-56091-590-0, 304 pp., Paperbound 1995.

**\$39.99 List**

Product Code: R-152

eBook  
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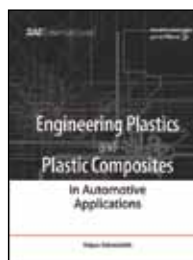
### Dictionary of Materials and Testing, Second Edition

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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### Engineering Plastics and Plastic Composites in Automotive Applications

By Kalyan Sehanobish

This book focuses on some of the various types of plastics and plastic composites and their applications and advantages within passenger vehicles.

978-0-7680-1933-9, 56 pp., Paperbound 2009.

**\$199.00 List**

Product Code: T-122



## Lightweight Magnesium Technology 2001- 2005

By Thomas Ruden

The advancements and expanded usage of magnesium by the automotive industry are highlighted in this book which contains 45 SAE Technical Papers presented by technology experts at SAE events from 2001 -2005.

978-0-7680-1781-6, 366 pp., Paperbound 2006.

**\$49.99 List**

Product Code: PT-131



## Honda R&D Technical Review: October 2010

This ebook gives unique insight into the cutting-edge technical developments from Honda's worldwide R&D team from April through September 2010.

978-0-7680-7404-2, PDF Only 2010.

**\$100.00 List**

Product Code: B-HON-008

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## Developments in Lightweight Aluminum Alloys for Automotive Applications: 2001-2005

By James M Boileau

This book contains 50 technical papers that document the processes, guidelines and physical and mechanical properties that can be applied to the selection and design of lightweight components for current and future automotive applications.

978-0-7680-1716-8, 552 pp., Paperbound 2006.

**\$49.99 List**

Product Code: PT-130



## 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.

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## Multiaxial Fatigue of an Induction Hardened Shaft

This book focuses on the fatigue and fracture analysis of an induction hardened shaft subjected to combined bending and torsion. It includes the complexities of varying material and hardness distribution through the thickness of the shaft along with internal residual stresses.

978-0-7680-0528-8, 196 pp., Paperbound 1999.

**\$49.99 List**

Product Code: AE-28



## Structural Composite Materials

By F.C. Campbell

This book provides a comprehensive overview of advanced composite materials from an industrial perspective, drawing on the author's 38 years of industry experience.

978-1-61503-140-5, 621 pp., PDF Only 2010.

**\$159.00 List**

Product Code: B-ASM-031

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## SAE Fatigue Design Handbook

This book describes the major elements of the fatigue design process and how those elements must be tied together in a comprehensive product evaluation.

978-1-56091-917-9, 496 pp., Paperbound 1997.

**\$99.99 List**

Product Code: AE-22



## Optical Microscopy of Fiber-Reinforced Composites

By Luther M. Gammon, Brian S. Hayes

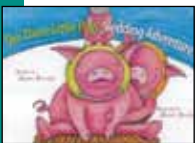
This hands-on instructional book covers a wide range of topics and presents studies that provide insight into processing effects, toughening approaches, damage mechanisms, and environmental effects on the microstructure of composite materials.

978-1-61503-143-6, 273 pp., PDF Only 2010.

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## Three Little Pigs Sledding Adventure

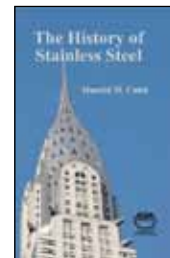
Stephen Krensky

In this book, young readers will follow the three little pigs as they go out to play in the snow and ride on their sleds. The story, presents scientific concepts and teaches the effects of height and weight on the pigs' sled and how far and fast it can go to escape the Big Bad Wolf.

978-0-7680-3486-8, 32 pp., Paperbound 2011.

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## The History of Stainless Steel

By Harold M. Cobb

This is the first book that captures the unfolding excitement and innovations of stainless steel pioneers and entrepreneurs.

978-1-61503-138-2, 374 pp., PDF Only 2010.

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**Superalloys:  
Alloying and Performance**

*By Blaine Geddes, Xiao Huang, Hugo Leon*  
This practical guide provides an introduction for understanding the compositional complexity of superalloys, along with the wide range of alloys developed for specific applications.

978-1-61503-142-9, 184 pp., PDF Only 2010.

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**Parametric Analyses of High-Temperature  
Data for Aluminum Alloys**

*By J. Gilbert Kaufman*

This eBook contains background educational materials on parametric analyses, extensive data, and previously unpublished master high-temperature curves for wrought and cast aluminum alloys.

978-1-61503-053-8, 171 pp., PDF Only 2008.

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**Welding Aluminum -  
Questions and Answers, 2nd Edition  
A Practical Guide for Troubleshooting  
Aluminum Welding-Related Problems**

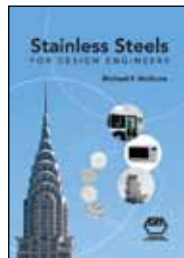
*By Tony Anderson*

This practical guide to troubleshooting aluminum welding-related problems is based on real-life questions and answers from author Tony Anderson's long-running column in the Welding Journal.

978-0-87171-085-7, 257 pp., Hardbound 2010.

**\$152.00 List**

Product Code: B-AWS-006



**Stainless Steels for Design Engineers**

*By Michael F. Mcquire*

This eBook is a technical guide for anyone who designs or builds with stainless steels. Loaded with property data, it is a valuable resource for designers and engineers selecting and specifying stainless steels, and for working with new steel types or on new applications.

978-1-61503-059-0, 310 pp., PDF Only 2008.

**\$179.00 List**

Product Code: B-ASM-022

ebook  
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**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.

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

**\$165.00 List**

Product Code: B-RAP-004

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

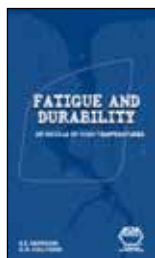
This unique book gives chronicles the top Honda technical developments from April through September 2008. The 21 papers included give rare insight into the Honda's worldwide R&D team, and cover automotive, motorcycle, power products, and other fundamental technologies.

978-0-7680-2101-1, Paperbound 2008.

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**Fatigue and Durability of Metals at High  
Temperatures**

*By G.R. Halford, S.S. Manson*

From concept to application, this eBook describes the method of strain-range partitioning for analyzing time-dependent fatigue.

978-1-61503-054-5, 276 pp., PDF Only 2009.

**\$249.00 List**

Product Code: B-ASM-010

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**Elements of Metallurgy and Engineering  
Alloys**

*By F.C. Campbell*

This eBook provides thorough and systematic coverage on both basic metallurgy and the practical engineering aspects of metallic material selection and application.

978-1-61503-058-3, 670 pp., PDF Only 2008.

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**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**

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**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.

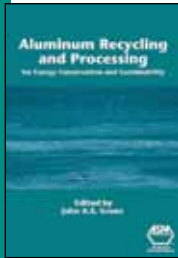
978-0-7680-2068-7, Paperbound 2008.

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## Materials



### Aluminum Recycling and Processing for Energy Conservation and Sustainability

By John A.S. Green

This comprehensive book provides a detailed overview and fundamental analysis of sustainability issues associated with the aluminum industry.

978-1-61503-057-6, 270 pp., PDF Only 2007.

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### Guide to Friction, Wear, and Erosion Testing

By Kenneth G. Budinski

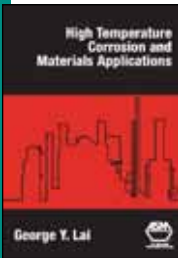
No other book provides the details of how to conduct tribotests, including their implications, how to avoid pitfalls, and which are most useful. Manual 56 is an excellent resource for newcomers to tribology and a useful reference for practicing tribologists.

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

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### High-Temperature Corrosion and Materials Application

By George Y. Lai

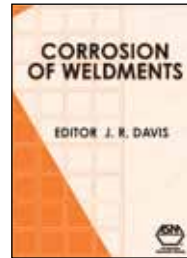
This eBook addresses concerns, technologies, and materials available for those engaged in high-temperature applications.

978-1-61503-055-2, 468 pp., PDF Only 2007.

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### Corrosion of Weldments

By J.R. Davis

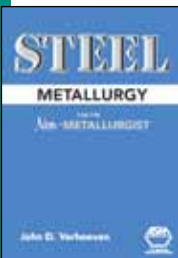
Corrosion failures of industrial components are commonly associated with welding. This eBook details the many forms of weld corrosion and the methods used to minimize weld corrosion.

978-1-61503-051-4, 227 pp., PDF Only 2006.

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By John D. Verhoeven

This eBook explains the metallurgy of steel and its heat treatment for non-metallurgists. It starts from simple concepts and builds to more complex concepts involved in heat treatment of most all types of steel as well as cast iron.

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### Fatigue and Durability of Structural Materials

By G.R. Halford, S.S. Manson

This book explains how mechanical material behavior relates to the design of structural machine components. Coverage focuses on metallic materials but also addresses unique capabilities of important nonmetals.

978-1-61503-074-3, 470 pp., PDF Only 2006.

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### Powder Metallurgy Stainless Steels: Processing, Microstructures, and Properties

By Prasan K. Samal, Erhard Klar

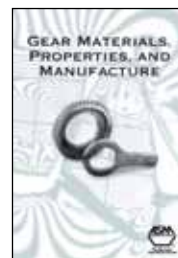
This book is a comprehensive reference to obtain good corrosion resistance properties of sintered stainless steels with careful processing, starting with powder selection, avoidance of contamination, efficient delubrication, and controlled sintering and cooling.

978-1-61503-052-1, 246 pp., PDF Only 2007.

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### Gear Materials, Properties, and Manufacture

By J.R. Davis

This book addresses all critical technical aspects of gear materials technology.

978-1-61503-049-1, 348 pp., PDF Only 2005.

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### Honda R&D Technical Review: April 2007

The 27 papers included in this volume chronicle the best of Honda's documented technical advancements from October 2006 through March 2007 and cover automotive, motorcycle, power products, and other fundamental technologies.

978-0-7680-1937-7, 186 pp., Paperbound 2007.

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### How to Organize and Run a Failure Investigation

By Daniel P. Dennies

This book outlines a proven systematic approach to failure investigation and explains the relationship between various failure sources (corrosion, for example) and the organization and conduct of the investigation.

978-1-61503-048-4, 232 pp., PDF Only 2005.

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### Steels: Processing, Structure, and Performance

By George Krauss

This eBook is a comprehensive guide to the broad, dynamic physical metallurgy of steels and is an essential reference for anyone who makes, uses, studies, or designs with steel.

978-1-61503-050-7, 634 pp., PDF Only 2005.

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### Characterization and Failure Analysis of Plastics

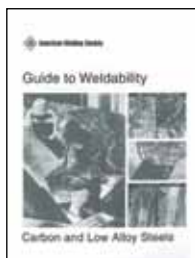
By Steve Lampman

This electronic reference provides practical and comprehensive coverage on how the performance of plastics is characterized during design, property testing, and failure analysis.

978-1-61503-073-6, 485 pp., PDF Only 2003.

**\$239.00 List**

Product Code: B-ASM-005



### Guide to Weldability- Carbon and Low Alloy Steels

By Fritz Saenger

Aimed at those responsible for the operation of fabrication shops and maintenance/repair facilities, this guide helps the non-welding engineer in the selection of method, materials, and procedures to produce the "desired results and stay out of trouble."

0-87171-000-5, 60 pp., Paperbound 2005.

**\$60.00 List**

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### Protective Coatings for Turbine Blades

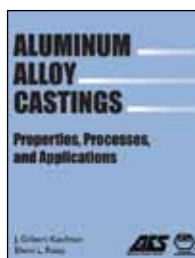
By Y. Tamarin

This eBook addresses the problem of surface protection for aircraft engine turbine blades. Information describes and details a methodology for optimizing turbine blade surface protection.

978-1-61503-070-5, 248 pp., PDF Only 2002.

**\$49.00 List**

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### Aluminum Alloy Castings: Properties, Processes, and Applications

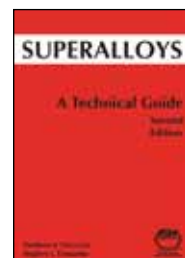
By J. Gilbert Kaufman, Elwin L. Rooy

This book provides property and performance data for all types of aluminum alloy castings and reviews and describes the factors that contribute to and affect those properties..

978-1-61503-047-7, 230 pp., PDF Only 2004.

**\$249.00 List**

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### Superalloys: A Technical Guide, 2nd Edition.

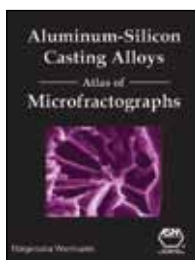
By Stephen J. Donachie, Matthew J. Donachie

This book covers virtually all technical aspects related to the selection, processing, use, and analysis of superalloys.

978-1-61503-064-4, 438 pp., PDF Only 2002.

**\$199.00 List**

Product Code: B-ASM-025



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### Aluminum-Silicon Casting Alloys: Atlas of Microfractographs

By Malgorzata Warmuzek

This electronic atlas provides an in-depth understanding of the metallurgy and fracture behavior of aluminum-silicon casting alloys, which are used in a wide variety of automotive, aerospace, and consumer product applications.

978-1-61503-075-0, 125 pp., PDF Only 2004.

**\$120.00 List**

Product Code: B-ASM-004



ebook  
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### Introduction to Automotive Composites

By K. Lindsey, N. Tucker

This book intends to give readers an appreciation of composites, materials properties, manufacturing technologies and the wider implications of using composites in the automotive sector.

978-1-85957-279-5, 206 pp., Hardbound 2002.

**\$144.00 List**

Product Code: B-RAP-002



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### Tyre Recycling

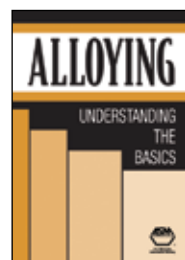
By V.L. Shulman

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**

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### Alloying: Understanding the Basics

By J.R. Davis

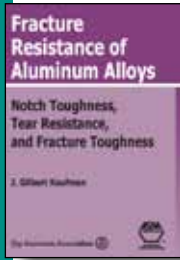
This book is a comprehensive guide to the influence of alloy additions on mechanical properties, physical properties, corrosion and chemical behavior, and processing and manufacturing characteristics.

978-1-61503-063-7, 657 pp., PDF Only 2001.

**\$199.00 List**

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# Materials



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## Fracture Resistance of Aluminum Alloys: Notch Toughness, Tear Resistance, and Fracture Toughness

By J. Gilbert Kaufman

This eBook presents one of the most complete compendiums of notch-tensile, tear, and fracture toughness data ever compiled. Information and data are included for a wide range of aluminum alloys, tempers, and products.

978-1-61503-061-3, 234 pp., PDF Only 2001.

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## Heat Treatment of Gears: A Practical Guide for Engineers

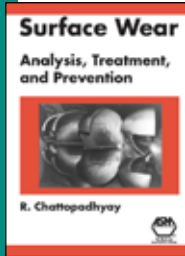
By A.K. Rakhit

This eBook is designed to provide the gear design engineer with a better understanding of heat treatment and its effects on gear quality and performance, especially as these considerations are critical to ensuring that the gears perform satisfactorily under anticipated service conditions.

978-1-61503-069-9, 219 pp., PDF Only 2000.

**\$159.00 List**

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## Surface Wear: Analysis, Treatment, and Prevention

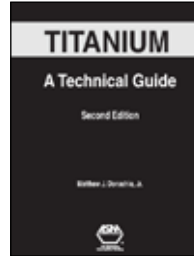
By R. Chattopadhyay

This eBook provides a multidisciplinary approach to understanding wear, diagnosing its causes, and prescribing appropriate treatments and preventive measures.

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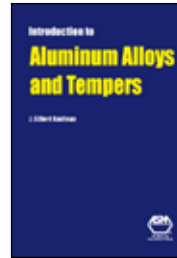
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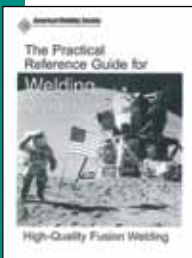
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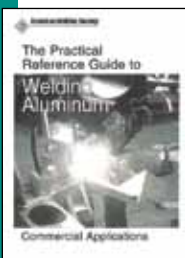
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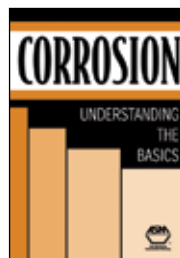
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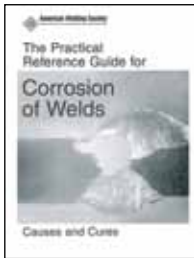
Newly published, this report provides an in-depth overview of a currently strong tire market, and looks at the internal and external forces currently driving this sector. A region by region analysis is included, along with detailed company analysis of all the major industry players.

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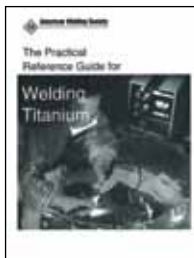
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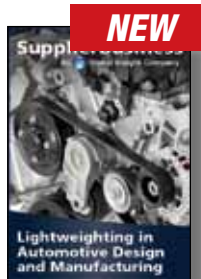
By Eugene G. Hornberger

This reference guide discusses the difficulties that originate from several basic sources when welding titanium and titanium alloys.

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By Rajeshwar K. Gupta, Sohan L. Chawla

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