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Laser welding is a rapidly developing and versatile technology which has found increasing applications in industry and manufacturing. It allows the precision welding of small and hard-to-reach areas, and is particularly suitable for operation under computer or robotic control. The Handbook of laser welding technologies reviews the latest developments in the field and how they can be used across a variety of applications. Part one provides an introduction to the fundamentals of laser welding before moving on to explore developments in established technologies including CO2 laser welding, disk laser welding and laser micro welding technology. Part two highlights laser welding technologies for various materials including aluminium and titanium alloys, plastics and glass. Part three focuses on developments in emerging laser welding technologies with chapters on the applications of robotics in laser welding and developments in the modelling and simulation of laser and hybrid laser welding. Finally, part four explores the applications of laser welding in the automotive, railway and shipbuilding industries. The Handbook of laser welding technologies is a technical resource for researchers and engineers using laser welding technologies, professionals requiring an understanding of laser welding techniques and academics interested in the field. Provides an introduction to the fundamentals of laser welding including characteristics, welding defects and evolution of laser welding Discusses

developments in a number of techniques including disk, conduction and laser micro welding Focuses on technologies for particular materials such as light metal alloys, plastics and glass Providing a comprehensive overview of hot stamping (also known as 'press hardening'), this book examines all essential aspects of this innovative metal forming method, and explores its various uses. It investigates hot stamping from both technological and business perspectives, and outlines potential future developments. Individual chapters explore topics such as the history of hot stamping, the state of the art, materials and processes employed, and how hot stamping is currently being used in the automotive industry to create ultra-high-strength steel components. Drawing on experience and expertise gathered from academia and industry worldwide, the book offers an accessible resource for a broad readership including students, researchers, vehicle manufacturers and metal forming companies. Creep-resistant steels are widely used in the petroleum, chemical and power generation industries. Creep-resistant steels must be reliable over very long periods of time at high temperatures and in severe environments. Understanding and improving long-term creep strength is essential for safe operation of plant and equipment. This book provides an authoritative summary of key research in this important area. The first part of the book describes the specifications and manufacture of creep-resistant steels. Part two covers the behaviour of creep-resistant steels and methods for strengthening them. The final group of chapters analyses applications in such areas as turbines and nuclear reactors. With its distinguished editors and international team of contributors, Creep-resistant steels is a valuable reference for the power generation, petrochemical and other industries which use high strength steels at elevated temperatures. Describes the specifications and manufacture of creep-resistant steels Strengthening methods are discussed in detail Different applications are analysed including turbines and nuclear reactors Rehabilitation of Pipelines Using Fibre-reinforced Polymer (FRP) Composites presents information on this critical component of industrial and civil infrastructures, also exploring the particular challenges that exist in

the monitor and repair of pipeline systems. This book reviews key issues and techniques in this important area, including general issues such as the range of techniques using FRP composites and how they compare with the use of steel sleeves. In addition, the book discusses particular techniques, such as sleeve repair, patching, and overwrap systems. Reviews key issues and techniques in the use of fiber reinforced polymer (FRP) composites as a flexible and cost-effective means to repair aging, corroded, or damaged pipelines Examines general issues, including the range of techniques using FRP composites and how they compare with the use of steel sleeves Discusses particular techniques such as sleeve repair, patching, and overwrap systems

The New York Times–bestselling novel by the critically acclaimed author of *Native Speaker*, *A Gesture Life* and *My Year Abroad*. At 59, Jerry Battle is coasting through life. His favorite pastime is flying his small plane high above Long Island. Aloft, he can escape from the troubles that plague his family, neighbors, and loved ones on the ground. But he can't stay in the air forever. Only months before his 60th birthday, a culmination of family crises finally pull Jerry down from his emotionally distant course. Jerry learns that his family's stability is in jeopardy. His father, Hank, is growing increasingly unhappy in his assisted living facility. His son, Jack, has taken over the family landscaping business but is running it into bankruptcy. His daughter, Theresa, has become pregnant and has been diagnosed with cancer. His longtime girlfriend, Rita, who helped raise his children, has now moved in with another man. And Jerry still has unanswered questions that he must face regarding the circumstances surrounding the death of his late wife. Since the day his wife died, Jerry has turned avoiding conflict into an art form—the perfect expression being his solitary flights from which he can look down on a world that appears serene and unscathed. From his comfortable distance, he can't see the messy details, let alone begin to confront them. But Jerry is learning that in avoiding conflict, he is also avoiding contact with the people he loves most.

Materials for Ultra-Supercritical and Advanced Ultra-Supercritical Power Plants provides researchers in academia and industry

with an essential overview of the stronger high-temperature materials required for key process components, such as membrane wall tubes, high-pressure steam piping and headers, superheater tubes, forged rotors, cast components, and bolting and blading for steam turbines in USC power plants. Advanced materials for future advanced ultra-supercritical power plants, such as superalloys, new martensitic and austenitic steels, are also addressed. Chapters on international research directions complete the volume. The transition from conventional subcritical to supercritical thermal power plants greatly increased power generation efficiency. Now the introductions of the ultra-supercritical (USC) and, in the near future, advanced ultra-supercritical (A-USC) designs are further efforts to reduce fossil fuel consumption in power plants and the associated carbon dioxide emissions. The higher operating temperatures and pressures found in these new plant types, however, necessitate the use of advanced materials. Provides researchers in academia and industry with an authoritative and systematic overview of the stronger high-temperature materials required for both ultra-supercritical and advanced ultra-supercritical power plants Covers materials for critical components in ultra-supercritical power plants, such as boilers, rotors, and turbine blades Addresses advanced materials for future advanced ultra-supercritical power plants, such as superalloys, new martensitic and austenitic steels Includes chapters on technologies for welding technologies First published in 2001. Routledge is an imprint of Taylor & Francis, an informa company. The first comprehensive monograph in blast cleaning technology, this book provides a comprehensive review of the technology, with an emphasis on practical applications. The author first systematically and critically reviews the theory behind the technology. Next you'll learn about the state of current blast cleaning, surface quality aspects, and the effects of blast cleaning on the performance of applied coatings. You'll also discover many of today's cutting-edge applications, including micro-machining, polishing, maintenance, and surface preparation for coating applications. Finally, the author describes recent advanced applications in the

machining industry, including blast cleaning-assisted laser milling. This textbook, suitable for students, researchers and engineers, gathers the experience of more than 20 years of teaching fracture mechanics, fatigue and corrosion to professional engineers and running experimental tests and verifications to solve practical problems in engineering applications. As such, it is a comprehensive blend of fundamental knowledge and technical tools to address the issues of fatigue and corrosion. The book initiates with a systematic description of fatigue from a phenomenological point of view, since the early signs of submicroscopic damage in few surface grains and continues describing, step by step, how these precursors develop to become mechanically small cracks and, eventually, macrocracks whose growth is governed by fracture mechanics. But fracture mechanics is also introduced to analyze stress corrosion and corrosion assisted fatigue in a rather advanced fashion. The author dedicates a particular attention to corrosion starting with an electrochemical treatment that mechanical engineers with a rather limited knowledge of electrochemistry will well digest without any pain. The electrochemical introduction is considered an essential requirement to the full understanding of corrosion that is essentially an electrochemical process. All stress corrosion aspects are treated, from the generalized film rupture-anodic dissolution process that is the base of any corrosion mechanism to the aggression occurring in either mechanically or thermally sensitized alloys up to the universe of hydrogen embrittlement, which is described in all its possible modes of appearance. Multiaxial fatigue and out-of-phase loading conditions are treated in a rather comprehensive manner together with damage progression and accumulation that are not linear processes. Load spectra are analyzed also in the frequency domain using the Fourier transform in a rather elegant fashion full of applications that are generally not considered at all in fatigue textbooks, yet they deserve a special place and attention. The issue of fatigue cannot be treated without a probabilistic approach unless the designer accepts the shame of one-out-of-two pieces failure. The reader is fully introduced to the most promising and advanced analytical

tools that do not require a normal or lognormal distribution of the experimental data, which is the most common case in fatigue. But the probabilistic approach is also used to introduce the fundamental issue of process volume that is the base of any engineering application of fatigue, from the probability of failure to the notch effect, from the metallurgical variability and size effect to the load type effect. Fractography plays a fundamental role in the post mortem analysis of fatigue and corrosion failures since it can unveil the mystery encrypted in any failure. Industrial Tribology A variable game changer for those companies operating in hostile, corrosive marine environments, Corrosion Control for Offshore Structures provides critical corrosion control tips and techniques that will prolong structural life while saving millions in cost. In this book, Ramesh Singh explains the ABCs of prolonging structural life of platforms and pipelines while reducing cost and decreasing the risk of failure. Corrosion Control for Offshore Structures places major emphasis on the popular use of cathodic protection (CP) combined with high efficiency coating to prevent subsea corrosion. This reference begins with the fundamental science of corrosion and structures and then moves on to cover more advanced topics such as cathodic protection, coating as corrosion prevention using mill applied coatings, field applications, and the advantages and limitations of some common coating systems. In addition, the author provides expert insight on a number of NACE and DNV standards and recommended practices as well as ISO and Standard and Test Methods. Packed with tables, charts and case studies, Corrosion Control for Offshore Structures is a valuable guide to offshore corrosion control both in terms of its theory and application. Prolong the structural life of your offshore platforms and pipelines Understand critical topics such as cathodic protection and coating as corrosion prevention with mill applied coatings Gain expert insight on a number of NACE and DNV standards and recommended practices as well as ISO and Standard Test Methods. Friction-stir welding (FSW) is a solid-state joining process primarily used on aluminum, and is also widely used for joining dissimilar metals such as aluminum, magnesium, copper and ferrous

alloys. Recently, a friction-stir processing (FSP) technique based on FSW has been used for microstructural modifications, the homogenized and refined microstructure along with the reduced porosity resulting in improved mechanical properties. Advances in friction-stir welding and processing deals with the processes involved in different metals and polymers, including their microstructural and mechanical properties, wear and corrosion behavior, heat flow, and simulation. The book is structured into ten chapters, covering applications of the technology; tool and welding design; material and heat flow; microstructural evolution; mechanical properties; corrosion behavior and wear properties. Later chapters cover mechanical alloying and FSP as a welding and casting repair technique; optimization and simulation of artificial neural networks; and FSW and FSP of polymers. Provides studies of the microstructural, mechanical, corrosion and wear properties of friction-stir welded and processed materials. Considers heat generation, heat flow and material flow. Covers simulation of FSW/FSP and use of artificial neural network in FSW/FSP. Computational welding mechanics (CWM) provides an important technique for modelling welding processes. Welding simulations are a key tool in improving the design and control of welding processes and the performance of welded components or structures. CWM can be used to model phenomena such as heat generation, thermal stresses and large plastic deformations of components or structures. It also has a wider application in modelling thermomechanical and microstructural phenomena in metals. This important book reviews the principles, methods and applications of CWM. The book begins by discussing the physics of welding before going on to review modelling methods and options as well as validation techniques. It also reviews applications in areas such as fatigue, buckling and deformation, improved service life of components and process optimisation. Some of the numerical methods described in the book are illustrated using software available from the author which allows readers to explore CWM in more depth. Computational welding mechanics is a standard work for welding engineers and all those researching welding processes and wider

thermomechanical and microstructural phenomena in metals. Highlights the principles, methods and applications of CWM. Discusses the physics of welding. Assesses modelling methods and validation techniques. Based on the European Welding Engineer (EWF) syllabus Part 3 - Construction and Design - this book provides a clear, highly illustrated and concise explanation of how welded joints and structures are designed and of the constraints which welding may impose on the design. Written for both students and practicing engineers in welding and design, the book will also be of value to civil, structural, mechanical and plant engineers. LIKE CLASS NOTES—ONLY BETTER. The Princeton Review's ASAP World History is designed to help you zero in on just the information you need to know to successfully grapple with the AP test. Advanced Placement exams require students to have a firm grasp of content—you can't bluff or even logic your way to a 5. Like a set of class notes borrowed from the smartest student in your grade, this book gives you exactly that. No tricks or crazy stratagems, no sample essays or practice sets: Just the facts, presented with lots of helpful visuals. Inside ASAP World History, you'll find:

- Essential concepts, people, events, dates, and ideas for AP World History—all explained clearly & concisely
- Lists, charts, tables, and maps for quick visual reference
- A three-pass icon system designed to help you prioritize learning what you MUST, SHOULD, and COULD know in the time you have available
- "Ask Yourself" questions to help identify areas where you might need extra attention
- A resource that's perfect for last-minute exam prep or as a handy resource for daily class work

Topics covered in ASAP World History include:

- All six time periods featured on the exam
- Major ancient & classical civilizations, states, and empires
- Globalization & exploration
- Imperialism & capitalism
- Revolutions & the formation of nations
- 20th-century developments such as World War I and II and Communism
- Independence movements in Asia & Africa ... and more!

Looking for sample exams, practice questions, and test-taking strategies? Check out our extended, in-depth prep guide, *Cracking the AP World History Exam!* Detailed analyses of failures of material components have proved to

be valuable in many ways; by preventing further failures, by assessing the validity of designs and the selection of materials, by uncovering shortcomings in the processing of the materials involved through characterizations of defects, and by revealing problems introduced during the manufacture or fabrication of the component. Increased recognition of the value of performing failure analyses has caused the field to develop into a very active area of technical endeavor. Failure analysis has been employed in numerous different technical disciplines and has proven beneficial. The increased activity has caused many new and improved methods for performing these analyses to be developed. Among these are many methods which can be characterized as generally belonging to the field of metallography. In recognition of the important role that metallography plays in the performance of failure analyses, the absence of a text that specifically discusses this subject, and the belief that communication of information on the subject would be of technical interest, The American Society for Metals and The International Metallographic Society co-sponsored a symposium. The intent was to bring together world-recognized authorities working in various aspects of the failure analysis and metallographic fields to share methods they use, results they have obtained, and the purposes to which they utilized these results. The symposium, entitled "Metallography in Failure Analysis", was held in Houston, Texas, USA, July 17-18, 1977. The material is contained in more than 500 datasheet articles, each devoted exclusively to one particular alloy, a proven format first used in the complementary guide for irons and steels. For even more convenience, the datasheets are arranged by alloy groups: nickel, aluminum, copper, magnesium, titanium, zinc and superalloys. The book provides very worthwhile and practical information in such areas as: compositions, trade names, common names, specifications (both U.S. and foreign), available products forms, typical applications, and properties (mechanical, fabricating, and selected others). This comprehensive resource also covers the more uncommon alloys by groups in the same datasheet format. Included are: refractory metals and alloys (molybdenum, tungsten,

niobium, tantalum), beryllium copper alloys, cast and P/M titanium parts, P/M aluminum parts, lead and lead alloys, tin-rich alloys, and sintering copper-base materials (copper-tin, bronze, brass, nickel silvers). There's only one way out. Belle Morte. One of five houses where vampires reside as celebrities and humans are paid to be their living donors. While others came here seeking fortune, I came in search of my sister who walked into Belle Morte five months ago . . . and never walked back out. Now that I'm here, the secrets about this world prove to be much bigger than I ever anticipated. And lurking around every corner are shocking insinuations regarding what happened to my sister. There's only one person who might have the answers I need, and the undeniable pull I feel toward him is terrifying: Edmond Dantès—a vampire, and my mortal enemy. The harder I try to resist him, the further I fall under his spell. And in one instant my life is irrevocably changed. My past becomes prologue and my fate becomes sealed behind these doors. Belle Morte has spoken. And it may never let me go. Absolutely the only book you will ever need to teach spelling. Teaching strategies include additional tips for use with the learning disabled, and word lists are organized by both sight and sound patterns. Build vocabulary skills with Latin and Greek roots and word lists, and by using the spelling rules to add prefixes and suffixes to root words. Choose from among the suggested activities to include practice with grammar, dictionary, and composition skills. Phonic, spelling, and punctuation rules are listed for easy reference. Word lists are divided by grade, 1 through 8. However, this method is easily adapted for older students or adults who need remedial work. Because of its multi-sensory and simplified approach to spelling, and because each child can work at his own pace, this program is ideal for students with learning disabilities. Grades K-12. Severe plastic deformation (SPD) is a very attractive research field for metallic materials because it provides new possibilities for manufacturing nanostructured materials in large quantities and allows microstructural design on different hierarchical levels. The papers included in this issue address the following topics: novel SPD processes as well as recent advancements in established processing methods,

microstructure evolution and grain refinement in single- and multi-phase alloys as well as composites, strategies to enhance the microstructure stability at elevated temperatures, mechanically driven phase transformations, surface nanostructuring, gradient and multilayered materials, and mechanical and physical properties of SPD-processed materials. This book covers novel and innovative technologies used in development, modeling, chemical/physical investigation and biomedical (in-vitro and in-vivo) trials of nanomaterials and nanocomposites. Novel methods for nanoparticle development and manufacturing are presented, as well as their safety and promising applications. In addition, the book highlights new frontiers in the use of metal / metal oxide nanoparticles, hierarchical nanostructures and organic coatings as sensors for detecting gases, inorganic and organic materials, including biosensors for bacteria and cancers. Organic nanoparticle composites for medical applications (tissue engineering, tissue replacement, regeneration, etc.), including hydroxyapatite NPs, are also covered, together with related in-vitro and preclinical investigations. In closing, the book shares recent findings on orthopedic and dental implant coatings using nanoparticles, their biological efficacy and safety. Hybrid laser-arc welding (HLAW) is a combination of laser welding with arc welding that overcomes many of the shortfalls of both processes. This important book gives a comprehensive account of hybrid laser-arc welding technology and applications. The first part of the book reviews the characteristics of the process, including the properties of joints produced by hybrid laser-arc welding and ways of assessing weld quality. Part two discusses applications of the process to such metals as magnesium alloys, aluminium and steel as well as the use of hybrid laser-arc welding in such sectors as ship building and the automotive industry. With its distinguished editor and international team of contributors, Hybrid laser-arc welding is a valuable source of reference for all those using this important welding technology. Reviews arc and laser welding including both advantages and disadvantages of the hybrid laser-arc approach Explores the characteristics of the process including the

properties of joints produced by hybrid laser-arc welding and ways of assessing weld quality Examines applications of the process including magnesium alloys, aluminium and steel with specific focus on applications in the shipbuilding and automotive industries Provides definitions and study tips for over sixteen hundred frequently used SAT words and includes strategies for memorizing the words and answering questions on the test. This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. Industrial high pressure processes open the door to many reactions that are not possible under 'normal' conditions. These are to be found in such different areas as polymerization, catalytic reactions, separations, oil and gas recovery, food processing, biocatalysis and more. The most famous high pressure process is the so-called Haber-Bosch process used for fertilizers and which was awarded a Nobel prize. Following an introduction on historical development, the current state, and future trends, this timely and comprehensive publication goes on to describe different industrial processes, including methanol and other catalytic syntheses, polymerization and renewable energy processes, before covering safety and equipment issues. With its excellent choice of industrial contributions, this handbook offers high quality information not found elsewhere, making it invaluable reading for a broad and interdisciplinary audience. Welding processes handbook is an introductory guide to all of the

main welding processes. It is specifically designed for students on EWF courses and newcomers to welding and is suitable as a textbook for European welding courses in accordance with guidelines from the European Welding Federation. Welding processes and equipment necessary for each process are described so that they can be applied to all instruction levels required by the EWF and the important areas of welded joint design, quality assurance and costing are also covered in detail. A comprehensive and detailed reference guide on the integrity and safety of oil and gas pipelines, both onshore and offshore Covers a wide variety of topics, including design, pipe manufacture, pipeline welding, human factors, residual stresses, mechanical damage, fracture and corrosion, protection, inspection and monitoring, pipeline cleaning, direct assessment, repair, risk management, and abandonment Links modern and vintage practices to help integrity engineers better understand their system and apply up-to-date technology to older infrastructure Includes case histories with examples of solutions to complex problems related to pipeline integrity Includes chapters on stress-based and strain-based design, the latter being a novel type of design that has only recently been investigated by designer firms and regulators Provides information to help those who are responsible to establish procedures for ensuring pipeline integrity and safety Engineers and geologists in the petroleum industry will find *Petroleum Related Rock Mechanics, 2e*, a powerful resource in providing a basis of rock mechanical knowledge - a knowledge which can greatly assist in the understanding of field behavior, design of test programs and the design of field operations. Not only does this text give an introduction to applications of rock mechanics within the petroleum industry, it has a strong focus on basics, drilling, production and reservoir engineering. Assessment of rock mechanical parameters is covered in depth, as is acoustic wave propagation in rocks, with possible link to 4D seismics as well as log interpretation. Learn the basic principles behind rock mechanics from leading academic and industry experts Quick reference and guide for engineers and geologists working in the field Keep informed and up to date on all the latest

methods and fundamental concepts Thermochemical surface engineering significantly improves the properties of steels. Edited by two of the world's leading authorities, this important book summarises the range of techniques and their applications. It covers nitriding, nitrocarburizing and carburizing. There are also chapters on low temperature techniques as well as boriding, sheradizing, aluminizing, chromizing, thermo-reactive deposition and diffusion. Reviews the fundamentals of surface treatments and current performance of improved materials Covers nitriding, nitrocarburizing and carburizing of iron and iron carbon alloys Examines how different thermochemical surface engineering methods can help against corrosion" This comprehensive handbook covers all aspects of cathodic protection in terms of both practice and theory. *Chemical Engineering Computation with MATLAB®, Second Edition* continues to present basic to advanced levels of problem-solving techniques using MATLAB as the computation environment. The Second Edition provides even more examples and problems extracted from core chemical engineering subject areas and all code is updated to MATLAB version 2020. It also includes a new chapter on computational intelligence and: Offers exercises and extensive problem-solving instruction and solutions for various problems Features solutions developed using fundamental principles to construct mathematical models and an equation-oriented approach to generate numerical results Delivers a wealth of examples to demonstrate the implementation of various problem-solving approaches and methodologies for problem formulation, problem solving, analysis, and presentation, as well as visualization and documentation of results Includes an appendix offering an introduction to MATLAB for readers unfamiliar with the program, which will allow them to write their own MATLAB programs and follow the examples in the book Provides aid with advanced problems that are often encountered in graduate research and industrial operations, such as nonlinear regression, parameter estimation in differential systems, two-point boundary value problems and partial differential equations and optimization This essential textbook readies engineering students,



researchers, and professionals to be proficient in the use of MATLAB to solve sophisticated real-world problems within the interdisciplinary field of chemical engineering. The text features a solutions manual, lecture slides, and MATLAB program files. Welded design is often considered as an area in which there's lots of practice but little theory. Welded design tends to be overlooked in engineering courses and many engineering students and engineers find materials and metallurgy complicated subjects. Engineering decisions at the design stage need to take account of the properties of a material – if these decisions are wrong failures and even catastrophes can result. Many engineering catastrophes have their origins in the use of irrelevant or invalid methods of analysis, incomplete information or the lack of understanding of material behaviour. The activity of engineering design calls on the knowledge of a variety of engineering disciplines. With his wide engineering background and accumulated knowledge, John Hicks is able to show how a skilled engineer may use materials in an effective and economic way and make decisions on the need for the positioning of joints, be they permanent or temporary, between similar and dissimilar materials. This book provides practising engineers, teachers and students with the necessary background to welding processes and methods of design employed in welded fabrication. It explains how design practices are derived from experimental and theoretical studies to produce practical and economic fabrication. Provides specialist information on a topic often omitted from engineering courses Explains why certain methods are used, and also gives examples of commonly performed calculations and derivation of data. The first book of Failure Analysis Case Studies selected from volumes 1, 2 and 3 of the journal Engineering Failure Analysis was published by Elsevier Science in September 1998. The book has proved to be a sought-after and widely used source of reference material to help people avoid or analyse engineering failures, design and manufacture for greater safety and economy, and assess operating, maintenance and fitness-for-purpose procedures. In the last three years, Engineering Failure Analysis has continued to

build on its early success as an essential medium for the publication of failure analysis cases studies and papers on the structure, properties and behaviour of engineering materials as applied to real problems in structures, components and design. Failure Analysis Case Studies II comprises 40 case studies describing the analysis of real engineering failures which have been selected from volumes 4, 5 and 6 of Engineering Failure Analysis. The case studies have been arranged in sections according to the specific type of failure mechanism involved. The failure mechanisms covered are overload, creep, brittle fracture, fatigue, environmental attack, environmentally assisted cracking and bearing failures. The book constitutes a reference set of real failure investigations which should be useful to professionals and students in most branches of engineering. Many of the engineering problems of particular importance to railways arise at interfaces and the safety-critical role of the wheel/rail interface is widely acknowledged. Better understanding of wheel/rail interfaces is therefore critical to improving the capacity, reliability and safety of the railway system. Wheel-rail interface handbook is a one-stop reference for railway engineering practitioners and academic researchers. Part one provides the fundamentals of contact mechanics, wear, fatigue and lubrication as well as state-of-the-art research and emerging technologies related to the wheel/rail interface and its management. Part two offers an overview of industrial practice from several different regions of the world, thereby providing an invaluable international perspective with practitioners' experience of managing the wheel/rail interface in a variety of environments and circumstances. This comprehensive volume will enable practising railway engineers, in whatever discipline of railway engineering – infrastructure, vehicle design and safety, and so on – to enhance their understanding of wheel/rail issues, which have a major influence on the running of a reliable, efficient and safe railway. One-stop reference on the important topic of wheel rail-interfaces Presents the fundamentals of contact mechanics, wear, fatigue and lubrication Examines state-of-the-art research and emerging technologies related to wheel-rail interface and its management

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