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Part 3: Mechanical and Thermomechanical Properties of Polymers **Automotive Paints and Coatings Extrusion** Nondestructive Characterization of Materials IV Engineering Biopolymers Plastic Product Material and Process Selection Handbook Switched Reluctance Motor Drives **Recent Advances in Gearing Materials, Design and Manufacturing for Lightweight Vehicles Laser Welding of Plastics Handbook of Plastics Joining New Composite Materials Laser Sintering with Plastics Plastics Ultrasonic Welding of Metals Electronic Components and Systems Tom and Joe Joining of Polymer-Metal Hybrid Structures Fatigue of Textile and Short Fiber Reinforced Composites Automotive Carbon Fiber Composites Troubleshooting Injection Moulding My First Readers Field of Screams Bionanocomposites Micro Metal Forming Assignment of the Glass Transition Industrial Instrumentation and Control Systems How does MRI work? Hot Runners in Injection Moulds Characterization of Polymer Blends Handbook of Polymer Blends and Composites Meshless Methods in Biomechanics Handbook of Mechanical Engineering Functional Coatings Coloring of Plastics Doris Flame Retardants for Plastics and Textiles Plastics and Composites Welding Handbook Stepbrother Unsealed Steck-Vaughn Elements of Reading Fluency**

This book is for people involved in working with plastic material and plastic fabricating processes. The information and data in this book are provided as a comparative guide to help in understanding the performance of plastics and in making the decisions that must be made when developing a logical approach to fabricating plastic products to meet performance requirements at the lowest costs. It is formatted to allow for easy reader access and this care has been translated into the individual chapter constructions and index. This book makes very clear the behaviour of the 35,000 different plastics with the different behaviours of the hundreds of processes. Products reviewed range from toys to medical devices, to cars, to boats, to underwater devices, containers, springs, pipes, aircraft and spacecraft. The reader's product to be designed and/or fabricated can be directly or indirectly related to plastic materials, fabricating processes and/or product design reviews in this book. *Essential for people involved in working with plastic material and plastic fabricating processes *Will help readers understand the performance of plastics *Helps readers to make decisions which meet performance requirements and to keep costs low Now in its second edition and still the only book of its kind, this is an authoritative treatment of all stages of the coating process -- from body materials, paint shop design, and pre-treatment, through primer surfacers and top coats. New topics of interest covered are color control, specification and testing of coatings, as well as quality and supply concepts, while valuable information on capital and legislation aspects is given. Invaluable for engineers in the automotive and paints and coatings industry as well as for students in the field. Filling the gap for a reference dedicated to the characterization of polymer blends and their micro and nano morphologies, this book provides comprehensive, systematic coverage in a one-stop, two-volume resource for all those working in the field. Leading researchers from industry and academia, as well as from government and private research institutions around the world summarize recent technical advances in chapters devoted to their individual contributions. In so doing, they examine a wide range of modern characterization techniques, from microscopy and spectroscopy to diffraction, thermal analysis, rheology, mechanical measurements and chromatography. These methods are compared with each other to assist in determining the best solution for both fundamental and applied problems, paying attention to the characterization of nanoscale miscibility and interfaces, both in blends involving copolymers and in immiscible blends. The thermodynamics, miscibility, phase separation, morphology and interfaces in polymer blends are also discussed in light of new insights involving the nanoscopic scale. Finally, the authors detail the processing-morphology-property relationships of polymer blends, as well as the influence of processing on the generation of micro and nano morphologies, and the dependence of these morphologies on the properties of blends. Hot topics such as compatibilization through nanoparticles, miscibility of new biopolymers and nanoscale investigations of interfaces in blends are also addressed. With its application-oriented approach, handpicked selection of topics and expert contributors, this is an outstanding survey for anyone involved in the field of polymer blends for advanced technologies. 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. This is the first detailed description in English of radiation and polymeric material interaction and the influences of thermal and optical material properties. As such, it provides comprehensive information on material and process characteristics as well as applications regarding plastic laser welding. The first part of this practical book introduces the structure and physical properties of plastics, before discussing the interaction of material and radiation in the NIR and IR spectral range. This is followed by an overview of the physical foundations of laser radiation and laser sources used for plastic welding. The third part describes the main processes of laser welding thermoplastics, as well as possibilities of process control, design of joint geometry, material compatibilities and adaptation of absorption of plastics to NIR radiation. Finally, the author explains applications of laser welding plastics using several industrial case studies from the automotive industry, household goods, and medical devices. Tailored to the needs of everyone dealing with laser welding of plastics, especially engineers in packaging, component manufacturing, and the medical industry. There is a great deal of interest in extending nondestructive technologies beyond the location and identification of cracks and voids. Specifically there is growing interest in the application of nondestructive evaluation (NOE) to the measurement of physical and mechanical properties of materials. The measurement of materials properties is often referred to as materials characterization; thus nondestructive techniques applied to characterization become nondestructive characterization (NDC). There are a number of meetings, proceedings and journals focused upon nondestructive technologies and the detection and identification of cracks and voids. However, the series of symposia, of which these proceedings represent the fourth, are the only meetings uniquely focused upon nondestructive characterization. Moreover, these symposia are especially concerned with stimulating communication between the materials, mechanical and manufacturing engineer and the NDE technology oriented engineer and scientist. These symposia recognize that it is the welding of these areas of expertise that is necessary for practical development and application of NDC technology to measurements of components for in service life time and sensor technology for intelligent processing of materials. These proceedings are from the fourth international symposia and are edited by c.o. Ruud, J. F. Bussiere and R.E. Green, Jr. . The dates, places, etc of the symposia held to date area as follows: Symposia on Nondestructive Methods for TITLE: Material Property Determination DATES: April 6-8, 1983

PLACE: Hershey, PA, USA CHAIRPERSONS: C.O. Ruud and R.E. Green, Jr. A comprehensive introduction to the concepts of joining technologies for hybrid structures This book introduces the concepts of joining technology for polymer-metal hybrid structures by addressing current and new joining methods. This is achieved by using a balanced approach focusing on the scientific features (structural, physical, chemical, and metallurgical/polymer science phenomena) and engineering properties (mechanical performance, design, applications, etc.) of the currently available and new joining processes. It covers such topics as mechanical fastening, adhesive bonding, advanced joining methods, and statistical analysis in joining technology. Joining of Polymer-Metal Hybrid Structures: Principles and Applications is structured by joining principles, in adhesion-based, mechanical fastened, and direct-assembly methods. The book discusses such recent technologies as friction riveting, friction spot joining and ultrasonic joining. This is used for applications where the original base material characteristics must remain unchanged. Additional sections cover the main principles of statistical analysis in joining technology (illustrated with examples from the field of polymer-metal joining). Joining methods discussed include mechanical fastening (bolting, screwing, riveting, hinges, and fits of polymers and composites), adhesive bonding, and other advanced joining methods (friction staking, laser welding, induction welding, etc.). Provides a combined engineering and scientific approach used to describe principles, properties, and applications of polymer-metal hybrid joints Describes the current developments in design of experiments and statistical analysis in joining technology with emphasis on joining of polymer-metal hybrid structures Covers recent innovations in joining technology of polymer-metal hybrid joints including friction riveting, friction spot joining, friction staking, and ultrasonic joining Principles illustrated by pictures, 3D-schemes, charts, and drawings using examples from the field of polymer-metal joining Joining of Polymer-Metal Hybrid Structures: Principles and Applications will appeal to chemical, polymer, materials, metallurgical, composites, mechanical, process, product, and welding engineers, scientists and students, technicians, and joining process professionals. This book is unique in its focus on market-relevant bio/renewable materials. It is based on comprehensive research projects, during which these materials were systematically analyzed and characterized. For the first time the interested reader will find comparable data not only for biogenic polymers and biological macromolecules, such as proteins, but also for engineering materials. The reader will also find valuable information regarding topics such as micro-structure, manufacturing, and processing, application, and recycling properties of commercially available biopolymers. An invaluable source of information for researchers and engineers, as well as for marketing and business development. Raw material manufacturers, plastic materials and additive providers, processors, machine manufacturers, and innovative packaging, textile, and automotive manufacturers will find systematically researched and evaluated material characteristics. When Josh visits the haunted Carterville Stadium, a spirit follows him home. Now he and his friends are playing ball against a team of evil zombies. The sub volumes A of volume VIII/6 form a series of data collections and handbooks covering properties of polymer solids and polymer melts. The present volume forms the third part of it and compiles concepts and data concerning thermomechanical, mechanical and fracture-mechanical properties of pure, filled and reinforced thermoplastics, thermo sets and high-performance composites. Expert coverage of the state of the art in plastics coloring This latest edition of Coloring of Plastics: Fundamentals offers an updated introduction to color as a science while also providing the foundation for many additional technological subjects. The basic families of colorants are described, along with their properties. The material examines how statistical analysis can improve the consistency of colored polymer production runs as well as the colorants used to match the color. Other important topics covered in Coloring of Plastics: Fundamentals, Second Edition include: * Environmental issues and the reuse of discarded material * Potential problems with the interaction between colorants and other additives * Measurement information and matching, visually and instrumentally * Techniques for incorporating colorants into polymers as compounds or concentrates * Special effect colorants Polymer and colorant manufacturers, plastics compounders, and coating and synthetic fiber industries will acquire an enhanced appreciation of the complex technological issues a colorist must consider if a plastics coloring project is to succeed. This book presents the most up-to-date accomplishments in gear design and gear production, detailing theory of gearing and its application. As an enormous number of gears are used in such sectors as automobiles, aerospace, machines, and similar industries, even a very small improvement in the gear design or production, for example a 10 cent savings on each gear, can result in huge of savings in manufacturing, underscoring critical importance of the subject of the book. Giving a solid background in theory together with the latest advances in design and production, the book is ideal for product designers working in numerous industries. The volume also serves as a useful supplement to required texts well for students in mechanical and industrial engineering as it helps establish a scientific foundation to the subject, and facilitates a systematic learning process of gear kinematics, gear geometry, gear design, gear production/finishing operations, and related competencies. The second edition of Extrusion is designed to aid operators, engineers, and managers in extrusion processing in quickly answering practical day-to-day questions. The first part of the book provides the fundamental principles, for operators and engineers, of polymeric materials extrusion processing in single and twin screw extruders. The next section covers advanced topics including troubleshooting, auxiliary equipment, and coextrusion for operators, engineers, and managers. The final part provides applications case studies in key areas for engineers such as compounding, blown film, extrusion blow molding, coating, foam, and reprocessing. This practical guide to extrusion brings together both equipment and materials processing aspects. It covers basic and advanced topics, for reference and training, in thermoplastics processing in the extruder. Detailed reference data are provided on such important operating conditions as temperatures, start-up procedures, shear rates, pressure drops, and safety. A practical guide to the selection, design and optimization of extrusion processes and equipment Designed to improve production efficiency and product quality Focuses on practical fault analysis and troubleshooting techniques The new edition of this bestselling reference provides fully updated and detailed descriptions of plastics joining processes, plus an extensive compilation of data on joining specific materials. The volume is divided into two main parts: processes and materials. The processing section has 18 chapters, each explaining a different joining technique. The materials section has joining information for 25 generic polymer families. Both sections contain data organized according to the joining methods used for that material. * A significant and extensive update from experts at The Welding Institute * A systematic approach to discussing each joining method including: process, advantages and disadvantages, applications, materials, equipment, joint design, and welding parameters * Includes international suppliers' directory and glossary of key joining terms * Includes new techniques such as flash free welding and friction stir welding * Covers thermoplastics, thermosets, elastomers, and rubbers. Laser Sintering (LS) with plastics is one of the most promising additive manufacturing technologies: it is currently regarded as the process most likely in the future to permanently cross the border between prototyping and the production of functional parts. This step is challenging because it means that the technology must meet certain requirements that are also valid for traditional and established production processes. Only by succeeding at this step can a wide industry acceptance of LS be expected in the future. In this context, this book covers all levels of the LS process chain, including: - Current state of the machine technology - Essential process steps, both before and during sintering - Specific demands of the materials, powder production methods, and evaluation of powder properties - Mechanical properties and density of the parts produced by LS Examples of LS-produced parts are given, including those with special design features, to illustrate the characteristics and also the limitations of the LS method. In particular, the distinct advantages of LS parts over parts produced with other plastics processing methods (e.g., injection molding) are discussed. This first book to concentrate on providing a concise, representative overview of polymer microencapsulation for novel organic coatings and all its chemical and engineering aspects collates the literature hitherto spread out among journals in various disciplines. It covers all the important methods for carrying out microencapsulations, including in situ polymerization, phase separation, emulsification, grinding and spray drying. The result is a solid, introduction from first-hand practitioners working in industry and research institutions for newcomers to the field. It is equally vital reading for professionals already active in the area needing to stay abreast of developments. Looking for a personalized Doris journal / notebook? This custom name journal with over a 100 line pages for writing, journaling, sketching, poetry and more makes the perfect gift for anyone or a gift for yourself. This cute rose gold journal measure 6x9 with a wide spread for easy writing. The cover is a gloss paperback for durability. Add it to your cart today. A succinct introduction to the physics and function of magnetic resonance imaging with an emphasis on practical information. This thoroughly revised second edition is clearly structured. The underlying physical principles of the MR experiment are described and the basic pulse sequences commonly used in clinical MRI. It progresses to more advanced techniques such as parallel imaging and cardiovascular MR imaging. An extensive glossary offers rapid access to MRI terminology and will help those seeking to

understand this interesting fascinating subject. This updated edition of Flame Retardants for Plastics and Textiles provides an overview of flame retardants that are in commercial use, were recently used, or are in development. The book is organized polymer-by-polymer and provides a guide to advantages, limitations, and patented and patent-free formulations, with insight into favorable and unfavorable combinations. The targeted readership is the plastics or textile finish compounder and the plastic additives R&D worker, as well as market development and sales. This edition contains, besides a compendium of current flame retardants, updated information relevant to performance testing, mode of action, and safety and regulatory aspects. Industrial or academic researchers will find useful a discussion of unsolved problems with possible new approaches. Both authors have extended, productive experience in both basic and applied flame retardancy. Electronic Components and Systems focuses on the principles and processes in the field of electronics and the integrated circuit. Covered in the book are basic aspects and physical fundamentals; different types of materials involved in the field; and passive and active electronic components such as capacitors, inductors, diodes, and transistors. Also covered in the book are topics such as the fabrication of semiconductors and integrated circuits; analog circuitry; digital logic technology; and microprocessors. The monograph is recommended for beginning electrical engineers who would like to know the fundamental concepts, theories, and processes in the related fields. This book presents the complete formulation of a new advanced discretization meshless technique: the Natural Neighbour Radial Point Interpolation Method (NNRPIM). In addition, two of the most popular meshless methods, the EFGM and the RPIM, are fully presented. Being a truly meshless method, the major advantages of the NNRPIM over the FEM and other meshless methods, are the remeshing flexibility and the higher accuracy of the obtained variable field. Using the natural neighbour concept, the NNRPIM permits to determine organically the influence-domain, resembling the cellulae natural behaviour. This innovation permits the analysis of convex boundaries and extremely irregular meshes, which is an advantage in the biomechanical analysis, with no extra computational effort associated. This volume shows how to extend the NNRPIM to the bone tissue remodelling analysis, expecting to contribute with new numerical tools and strategies in order to permit a more efficient numerical biomechanical analysis. Micro Metal Forming, i. e. forming of parts and features with dimensions below 1 mm, is a young area of research in the wide field of metal forming technologies, expanding the limits for applying metal forming towards micro technology. The essential challenges arise from the reduced geometrical size and the increased lot size. In order to enable potential users to apply micro metal forming in production, information about the following topics are given: tribological behavior: friction between tool and work piece as well as tool wear mechanical behavior: strength and formability of the work piece material, durability of the work pieces size effects: basic description of effects occurring due to the fact, that the quantitative relation between different features changes with decreasing size process windows and limits for forming processes tool making methods numerical modeling of processes and process chains quality assurance and metrology All topics are discussed with respect to the questions relevant to micro metal forming. The description comprises information from actual research and the young history of this technology branch to be used by students, scientists and engineers in industry who already have a background in metal forming and like to expand their knowledge towards miniaturization. tribological behavior: friction between tool and work piece as well as tool wear mechanical behavior: strength and formability of the work piece material, durability of the work pieces size effects: basic description of effects occurring due to the fact, that the quantitative relation between different features changes with decreasing size process windows and limits for forming processes tool making methods numerical modeling of processes and process chains quality assurance and metrology All topics are discussed with respect to the questions relevant to micro metal forming. The description comprises information from actual research and the young history of this technology branch to be used by students, scientists and engineers in industry who already have a background in metal forming and like to expand their knowledge towards miniaturization. Electric motors are the largest consumer of electric energy and they play a critical role in the growing market for electrification. Due to their simple construction, switched reluctance motors (SRMs) are exceptionally attractive for the industry to respond to the increasing demand for high-efficiency, high-performance, and low-cost electric motors with a more secure supply chain. Switched Reluctance Motor Drives: Fundamentals to Applications is a comprehensive textbook covering the major aspects of switched reluctance motor drives. It provides an overview of the use of electric motors in the industrial, residential, commercial, and transportation sectors. It explains the theory behind the operation of switched reluctance motors and provides models to analyze them. The book extensively concentrates on the fundamentals and applications of SRM design and covers various design details, such as materials, mechanical construction, and controls. Acoustic noise and vibration is the most well-known issue in switched reluctance motors, but this can be reduced significantly through a multidisciplinary approach. These methodologies are explained in two chapters of the book. The first covers the fundamentals of acoustic noise and vibration so readers have the necessary tools to analyze the problems and explains the surface waves, spring-mass models, forcing harmonics, and mode shapes that are utilized in modeling and analyzing acoustic noise and vibration. The second applies these fundamentals to switched reluctance motors and provides examples for determining the sources of any acoustic noise in switched reluctance motors. In the final chapter two SRM designs are presented and proposed as replacements for permanent magnet machines in a residential HVAC application and a hybrid-electric propulsion application. It also shows a high-power and compact converter design for SRM drives. Features: Comprehensive coverage of switched reluctance motor drives from fundamental principles to design, operation, and applications A specific chapter on electric motor usage in industrial, residential, commercial, and transportation applications to address the benefits of switched reluctance machines Two chapters address acoustic noise and vibration in detail Numerous illustrations and practical examples on the design, modeling, and analysis of switched reluctance motor drives Examples of switched reluctance motor and drive design This book covers several aspects of the fatigue behavior of textile and short fiber reinforced composites. The first part is dedicated to 2D and 3D reinforced textile composites and includes a systematic description of the damage evolution for quasi-static and tensile-tensile fatigue loadings. Acoustic emissions and digital image correlation are considered in order to detect the damage modes' initiation and development. The acoustic emission thresholds of the quasi-static loading are connected to the "fatigue limit" of the materials with distinctions for glass and carbon reinforcements. The second part is devoted to the fatigue behavior of injection molded short fiber reinforced composites. Experimental evidence highlights the dependence of their fatigue response on various factors: fiber and matrix materials, fiber distribution, environmental and loading conditions are described. A hybrid (experimental/simulations) multi-scale method is presented, which drastically reduces the amount of experimental data necessary for reliable fatigue life predictions. Beginning with a general overview of nanocomposites, Bionanocomposites: Integrating Biological Processes for Bio-inspired Nanotechnologies details the systems available in nature (nucleic acids, proteins, carbohydrates, lipids) that can be integrated within suitable inorganic matrices for specific applications. Describing the relationship between architecture, hierarchy and function, this book aims at pointing out how bio-systems can be key components of nanocomposites. The text then reviews the design principles, structures, functions and applications of bionanocomposites. It also includes a section presenting related technical methods to help readers identify and understand the most widely used analytical tools such as mass spectrometry, calorimetry, and impedance spectroscopy, among others. Dubel's Handbook has provided generations of German-speaking engineers with a comprehensive source of guidance and reference on which they can rely throughout their professional lives. DLC: Mechanical engineering. MY HERO, MY RUIN, MY RECKLESS TEMPTATION... DELIA I almost landed in my stepbrother's bed, and I want it to happen again. I'm too good for him. He's too crude for me. Fantasy is where this twisted thing should end. Chris Cleveland tempts me because he's wrong. Swoon-worthy, all-American Navy SEAL. Bad boy. Manwhore. I didn't know he was off limits the night we got hot and heavy. I didn't know our folks were hitched. Hell, I definitely didn't know I could ever want what I'm not supposed to have this badly, and one more smirk of his devilish lips just might bring me to my knees... There's a lot I don't know anymore. And he's about to teach me. CHRIS Love's a goddamned joke. I bed women between missions and rock their worlds with military precision. I never taste, touch, or tease the same chick twice. Get in, get out, and leave her a breathless mess always worked flawlessly - until Cordelia. I can't pry my perfect new stepsister out of my skull. I've never wanted to corrupt a girl so bad. She's my new target, my conquest, my obsession. Lucky I'm a SEAL. Losing isn't in my blood. But Delia's already lost, and her panties are about to be in flames. Annotation Injection moulding is one of the most commonly used processing technologies for plastics materials. Proper machine set up, part and mould design, and material selection can lead to high quality production. This review outlines common factors to check when preparing to injection mould components, so that costly mistakes can be avoided. This review examines the different types of surface

defects that can be identified in plastics parts and looks at ways of solving these problems. Useful flow charts to illustrate possible ways forward are included. Case studies and a large b257 of figures make this a very useful report. This volume covers the topics of: instrument design and measurement theory, reliability of instruments and fault diagnosis, precision instruments and computer vision, automation instruments, electrical and electronic instruments and equipment, sensors and their application, control technologies and applications, fluid power transmission and control, mechatronics, modeling, analysis and simulation, artificial intelligence, industrial robots and automation, automotive control systems, intelligent traffic control, CAD/CAM/CAE/CIM, optoelectronic technology, embedded systems, communication technology and network security, software development and mathematical modeling, computer applications in industry and engineering, the internet. This timely volume presents a range of critical topics on the use of composite materials in civil engineering; industrial, commercial, and residential structures; and historic buildings. Structural strengthening techniques based on composite materials, including, but not limited to, fiber-reinforced polymers, fiber-reinforced glasses, steel-reinforced polymers, and steel-reinforced glasses represent a practice employed internationally and have become an important component in the restoration of buildings impacted by natural hazards and other destructive forces. **New Composite Materials: Selection, Design, and Application** stands as a highly relevant and diverse effort, distinct from other technical publications dealing with building issues. The book focuses extensively on characterization of techniques employed for structural restoration and examines in detail an assortment of materials such as concrete, wood, masonry, and steel. Research into the manufacture of lightweight automobiles is driven by the need to reduce fuel consumption to preserve dwindling hydrocarbon resources without compromising other attributes such as safety, performance, recyclability and cost. **Materials, design and manufacturing for lightweight vehicles** will make it easier for engineers to not only learn about the materials being considered for lightweight automobiles, but also to compare their characteristics and properties. Part one discusses materials for lightweight automotive structures with chapters on advanced steels for lightweight automotive structures, aluminium alloys, magnesium alloys for lightweight powertrains and automotive structures, thermoplastics and thermoplastic matrix composites and thermoset matrix composites for lightweight automotive structures. Part two reviews manufacturing and design of lightweight automotive structures covering topics such as manufacturing processes for light alloys, joining for lightweight vehicles, recycling and lifecycle issues and crashworthiness design for lightweight vehicles. With its distinguished editor and renowned team of contributors, **Materials, design and manufacturing for lightweight vehicles** is a standard reference for practicing engineers involved in the design and material selection for motor vehicle bodies and components as well as material scientists, environmental scientists, policy makers, car companies and automotive component manufacturers. Provides a comprehensive analysis of the materials being used for the manufacture of lightweight vehicles whilst comparing characteristics and properties Examines crashworthiness design issues for lightweight vehicles and further emphasises the development of lightweight vehicles without compromising safety considerations and performance Explores the manufacturing process for light alloys including metal forming processes for automotive applications

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