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The Effect of Temperature and other Factors on Plastics and Elastomers Effect of Temperature and other Factors on Plastics and Elastomers Multi-Scale Continuum Mechanics Modelling of Fibre-Reinforced Polymer Composites Fatigue of Textile and Short Fiber Reinforced Composites Optimizacija konstrukcije izdelka - Upravljalni del - iz PBT GF30% Integrative Production Technology for High-Wage Countries Nondestructive Characterization of Materials IV Springer Handbook of Materials Data Addcon World 2000 Blowing Agents and Foaming Processes 2003 Multi-scale Simulation of Composite Materials Practical Testing and Evaluation of Plastics Blowing Agents and Foaming Processes Automotive Paints and Coatings Applied Liquid Crystal Polymers Microcellular Injection Molding Advances in Polymer Processing 2020 Conference Proceedings Werkstoffkunde Advanced Driver Assistance Systems and Autonomous Vehicles Blowing Agents and Foaming Processes 2006 High Power Diode Lasers Advances in Agricultural Machinery and Technologies Attrito e usura. Metodologie di progettazione e controllo Untersuchungen von Ultraschallschweißverbindungen in der Kombination unterschiedlicher Thermoplaste mit einer und mehreren Fügeebenen Pocket Specs for Injection Molding, 1997-98 The Effect of Creep and Other Time Related Factors on Plastics and Elastomers Annual Connectors and Interconnection Technology Symposium Proceedings Integrative Produktionstechnik für Hochlohnländer Impact and Dynamic Fracture of Polymers and Composites (ESIS 19) Kunststoffe Rapid Technologien Thermoplastics Konstruktionswerkstoffe des Maschinen- und Anlagenbaues Maro Polymer Notes Handbook of Engineering and Specialty Thermoplastics, Volume 3 Conference Proceedings Prozessgrößen beim Spritzgießen Recyclingprozesse von Fahrzeug-Kabelsträngen im Vergleich unter besonderer Berücksichtigung des Kupferanteils Konstruktionswerkstoffe des Maschinen- und Anlagenbaues

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Der Spritzgießprozess ist komplex. Viele Maschinengrößen und Prozessparameter haben Einfluss auf Formteilqualität, Prozesskonstanz und Wirtschaftlichkeit. Das Buch analysiert die Bedeutung der einzelnen Maschinengrößen und Prozessparameter, erklärt ihre Zusammenhänge und gibt Anregungen zur optimalen Einstellung. Die dargestellten Betrachtungen sind unabhängig vom eingesetzten Maschinenfabrikat und damit für alle gängigen Maschinen gültig. Zahlreiche Tabellen und Abbildungen veranschaulichen auch materialabhängige Einstellungen. Die zweite Auflage wurde um das Thema Auswahl und Bewertung von Spritzgießparametern erweitert. Mit der völlig neu bearbeiteten 5. Auflage der "Konstruktionswerkstoffe" steht Konstrukteuren, Technologen und Werkstoffingenieuren des Maschinen- und Anlagenbaus sowie Studierenden entsprechender Fachrichtungen ein Standardwerk zur Verfügung, das dem technischen Fortschritt und stark verbreiterten Angebot kommerzieller Werkstoffe ebenso gerecht wird wie den mit der Europäisierung einhergehenden Vereinheitlichungen in der Materialwirtschaft. Unter den Gesichtspunkten des Werkstoffeinsatzes in der Praxis und der dabei zu lösenden Probleme von Werkstoffauswahl und -substitution werden Werkstoffe aller Materialklassen eingehend erörtert. Der Inhalt ist nach Verwendungsgebieten und Gebrauchsanforderungen gegliedert. Nach zwei einleitenden Kapiteln über die Grundzüge der Werkstoffauswahl und -kennzeichnung folgt die Behandlung Allgemeiner Konstruktionswerkstoffe, von Werkstoffen für Werkzeuge, für tiefe und hohe Temperaturen, für den Einsatz unter Korrosions-, Verschleiß- und Reibbeanspruchung, von Gleit-, Lager- und Federwerkstoffen sowie von Werkstoffen für lösbare und unlösbare Verbindungen. Auf die Herstellung und Verarbeitung der Werkstoffe wird insoweit eingegangen, als sie einen bleibenden Einfluß auf die Werkstoffeigenschaften ausüben oder in Verbindung mit dem Werkstoffeinsatz charakteristisch sind. Due to their high stiffness and strength and their good processing properties short fibre reinforced thermoplastics are well-established construction materials. Up to now, simulation of engineering parts consisting of short fibre reinforced thermoplastics has often been based on macroscopic phenomenological models, but deformations, damage and failure of composite materials strongly depend on their

microstructure. The typical modes of failure of short fibre thermoplastics enriched with glass fibres are matrix failure, rupture of fibres and delamination, and pure macroscopic consideration is not sufficient to predict those effects. The typical predictive phenomenological models are complex and only available for very special failures. A quantitative prediction on how failure will change depending on the content and orientation of the fibres is generally not possible, and the direct involvement of the above effects in a numerical simulation requires multi-scale modelling. One the one hand, this makes it possible to take into account the properties of the matrix material and the fibre material, the microstructure of the composite in terms of fibre content, fibre orientation and shape as well as the properties of the interface between fibres and matrix. On the other hand, the multi-scale approach links these local properties to the global behaviour and forms the basis for the dimensioning and design of engineering components. Furthermore, multi-scale numerical simulations are required to allow efficient solution of the models when investigating three-dimensional problems of dimensioning engineering parts. Bringing together mathematical modelling, materials mechanics, numerical methods and experimental engineering, this book provides a unique overview of multi-scale modelling approaches, multi-scale simulations and experimental investigations of short fibre reinforced thermoplastics. The first chapters focus on two principal subjects: the mathematical and mechanical models governing composite properties and damage description. The subsequent chapters present numerical algorithms based on the Finite Element Method and the Boundary Element Method, both of which make explicit use of the composite’s microstructure. Further, the results of the numerical simulations are shown and compared to experimental results. Lastly, the book investigates deformation and failure of composite materials experimentally, explaining the applied methods and presenting the results for different volume fractions of fibres. This book is a valuable resource for applied mathematics, theoretical and experimental mechanical engineers as well as engineers in industry dealing with modelling and simulation of short fibre reinforced composites. Inhaltsangabe:Hinweis: Ein Artikel über diese Diplomarbeit erscheint in englischer Sprache in der August-Ausgabe 2004 der Fachpublikation World of Metallurgy Erzmetall , herausgegeben vom Nichteisen-Metallurgie-Verband Deutschlands. Zusammenfassung: Mit der EU-Altauto-Richtlinie wird für die Fahrzeugindustrie festgelegt, dass ab 2006 lediglich 15 % und ab 2015 nur noch 5 % eines Fahrzeugs deponiert werden dürfen. Das Steigern der Recyclingquote von Altfahrzeugen und deren Bauteilen ist somit heute ein zentrales Thema. Daher wurde eine Diplomarbeit erstellt, in der aktuelle und in Entwicklung befindliche industrielle Verwertungsprozesse des Leitungssatzes (Kabelstrangs) untersucht und bewertet werden: des Leitungssatzes als einem Bauteil, das bis zu 65% des in Fahrzeugen verbauten Kupfers enthält. Da Kupfer einen hohen Materialwert besitzt und schon bei kleinsten Gehalten in Stahl und Kunststoffen deren Eigenschaftsprofil stark verschlechtert, wird hierauf speziell eingegangen. Um Praxisnähe zu gewährleisten, wurde die Arbeit in einem Automobilunternehmen erstellt. Daneben erfolgte eine enge Zusammenarbeit mit mehreren Zulieferfirmen sowie mit Betreibern der Verwertungsprozesse. Firmen wie Delphi, Lear, voestalpine, RRO, KME, NA und Cablo und ihre Ansprechpartner sind in der Arbeit genannt. Inzwischen werden in diesem Automobilunternehmen einige der erarbeiteten Vorschläge umgesetzt und die Zusammenarbeit mit einigen der o. g. Firmen wie z.B. Delphi vertieft. Es werden konkrete Verwertungsprozesse des Leitungssatzes vom vollständigen Schreddern über die Teildemontage bis zur vollständigen Demontage auf ihre wirtschaftliche, ökologische und technische Tragfähigkeit hin untersucht und anschließend bewertet. Qualifizierte Zahlen zu relevanten Kosten, Ausbeute, Tonnagen etc. der oben genannten Firmen sind detailliert angeführt. Eine wichtige Erkenntnis ist, dass schon heute eine Teildemontage des Leitungssatzes wirtschaftlich und ökologisch sinnvoll ist. Hierfür wurde ein beispielhafter Demontageprozess entwickelt und erprobt. Im Anschluss werden Vorschläge zur verbesserten, recyclinggerechten Konstruktion von Leitungssätzen gegeben. Zudem werden im Zuge dieser Arbeit die folgenden Themen besprochen: - Relevante rechtliche Rahmenbedingungen wie die EU-Altauto-Richtlinie. - Kupfer, Kunststoffe und ihre möglichen Verwertungswege. - Bauteile und Materialien von [...] Mit der völlig neu bearbeiteten 5. Auflage der "Konstruktionswerkstoffe" steht

Konstrukteuren, Technologen und Werkstoffingenieuren des Maschinen- und Anlagenbaus sowie Studierenden entsprechender Fachrichtungen ein Standardwerk zur Verfügung, das dem technischen Fortschritt und stark verbreiterten Angebot kommerzieller Werkstoffe ebenso gerecht wird wie den mit der Europäisierung einhergehenden Vereinheitlichungen in der Materialwirtschaft. Unter den Gesichtspunkten des Werkstoffeinsatzes in der Praxis und der dabei zu lösenden Probleme von Werkstoffauswahl und -substitution werden Werkstoffe aller Materialklassen eingehend erörtert. Der Inhalt ist nach Verwendungsgebieten und Gebrauchsanforderungen gegliedert. Nach zwei einleitenden Kapiteln über die Grundzüge der Werkstoffauswahl und -kennzeichnung folgt die Behandlung Allgemeiner Konstruktionswerkstoffe, von Werkstoffen für Werkzeuge, für tiefe und hohe Temperaturen, für den Einsatz unter Korrosions-, Verschleiß- und Reibbeanspruchung, von Gleit-, Lager- und Federwerkstoffen sowie von Werkstoffen für lösbare und unlösbare Verbindungen. Auf die Herstellung und Verarbeitung der Werkstoffe wird insoweit eingegangen, als sie einen bleibenden Einfluß auf die Werkstoffeigenschaften ausüben oder in Verbindung mit dem Werkstoffeinsatz charakteristisch sind. The second edition of this well-received handbook is the most concise yet comprehensive compilation of materials data. The chapters provide succinct descriptions and summarize essential and reliable data for various types of materials. The information is amply illustrated with 900 tables and 1050 figures selected primarily from well-established data collections, such as Landolt-Börnstein, which is now part of the SpringerMaterials database. The new edition of the Springer Handbook of Materials Data starts by presenting the latest CODATA recommended values of the fundamental physical constants and provides comprehensive tables of the physical and physicochemical properties of the elements. 25 chapters collect and summarize the most frequently used data and relationships for numerous metals, nonmetallic materials, functional materials and selected special structures such as liquid crystals and nanostructured materials. Along with careful updates to the content and the inclusion of timely and extensive references, this second edition includes new chapters on polymers, materials for solid catalysts and low-dimensional semiconductors. This handbook is an authoritative reference resource for engineers, scientists and students engaged in the vast field of materials science. This book provides a comprehensive reference for both academia and industry on the fundamentals, technology details, and applications of Advanced Driver-Assistance Systems (ADAS) and autonomous driving, an emerging and rapidly growing area. The book written by experts covers the most recent research results and industry progress in the following areas: ADAS system design and test methodologies, advanced materials, modern automotive technologies, artificial intelligence, reliability concerns, and failure analysis in ADAS. Numerous images, tables, and didactic schematics are included throughout. This essential book equips readers with an in-depth understanding of all aspects of ADAS, providing insights into key areas for future research and development. • Provides comprehensive coverage of the state-of-the-art in ADAS • Covers advanced materials, deep learning, quality and reliability concerns, and fault isolation and failure analysis • Discusses ADAS system design and test methodologies, novel automotive technologies • Features contributions from both academic and industry authors, for a complete view of this important technology Rapid Technologien ermöglichen eine schnelle, qualitativ hohe und wirtschaftliche Fertigung von Prototypen und Kleinserien. Dieser Praxis-Band informiert Produktentwickler, Konstrukteure, Fertiger, Werkzeug- und Formenbauer in konzentrierter Form über die Möglichkeiten der gebräuchlichsten Rapid Technologien. Er liefert sachkundige Informationen zur Bewältigung der täglichen Aufgaben in der Produktentwicklung und -erprobung. Stichpunkte aus dem Inhalt: Historie und Anwendungsbereiche // Rapid Technologien: Begriffe und Definitionen, Systematik, Merkmale und Grundlagen der additiven Fertigungsverfahren // Werkstoffe: Werkstoffwahl, Eigenschaften der Polymere und ihre Prüfverfahren, Ordnung und Kennzeichnung der Polymerwerkstoffe // // Potenziale der Rapid Technologien und Werkstoffe: Leistungskriterien, Verfahrensbeschreibung und Werkstoffe // Leistungsvergleich und Leistungsabnahme. The overall aim of this book is to aid the process of sourcing and selecting appropriate thermoplastic polymers. There are now a wide diversity of thermoplastics offered for commercial uses. At one end of the range are the high-volume commodity

materials for short life consumer applications. Whereas at the other end are the high value engineering materials; with significant levels of mechanical, physical and electrical performance. Within this publication, the generic groups of thermoplastics can be identified, along with their respective attributes and limitations. All thermoplastics are available in different grades. The constituents selected to form a grade are chosen to modify aspects of material behaviour, both during processing and in the final moulded form. The directory addresses materials which can be obtained in granular, powder or paste form for subsequent processing. Information is not provided directly on semi-finished product forms, such as films, fibres, sheet or profiles, other than when inferred from the processing descriptions of specified grades. The directory covers virgin or compounded material. It does not specifically address reclaimed or recycled grades. Data is provided for the mechanical and physical properties of moulded grades as processed by the route intended by the primary manufacturer (M) or compounder (C). Material grades can be obtained from a number of sources; either the original polymer manufacturer or a recognised compounder who produces a range of grades. This book gathers the proceedings of the International Symposium on Plastics Technology, which was held on March 10, 2020 in Aachen, Germany, and was organised by the Institute for Plastics Processing (IKV) in Industry and Craft at RWTH Aachen University. Peer-reviewed by an international scientific committee, the conference proceedings comprise the papers presented by the international speakers. Topics covered include - circular economy- extrusion- lightweight technologies- simulation and digitisation - injection moulding- hybrid materials and additive manufacturing. In these fields, key themes for plastics technologies have been identified that will shape the face of research and industry for the next decade. In their contributions, the authors present the latest scientific findings, and discuss topical issues in plastics technologies. The symposium offered an inspiring forum for the exchange on research and innovation, for discussing urgent questions and providing impulses for the future of plastics technology. This book presents the most important aspects of microcellular injection molding with applications for science and industry. The book includes: experimental rheology and pressure-volume-temperature (PVT) data for different gas materials at real injection molding conditions, new mathematical models, micrographs of rheological and thermodynamic phenomena, and the morphologies of microcellular foam made by injection molding. Further, the author proposes two stages of processing for microcellular injection molding, along with a methodology of systematic analysis for process optimization. This gives critical guidelines for quality and quantity analyses for processing and equipment design. Engineering with polymers is a growing technical field which requires special knowledge. Filling a need, this ready reference brings together the hard-to-get and recently acquired knowledge usually only found scattered in the original literature. At the beginning, the reference introduces plastics as a class of technical materials, gives an overview of their properties, presents plastics processing and its possible influence on the achievable quality of plastic parts. Afterwards, plastics testing is presented as a separate, practical-scientific field of work. The possibilities and fields of application of plastics testing will be discussed. This is followed by a comprehensive treatment of the individual, relevant test areas for the characterization and qualification of plastics and plastic molded parts made from them, with descriptions of the corresponding, practical test methods. A comprehensive index provides easy access to relevant information for successful engineering with plastics and suitable methods for material characterization and for quality assurance and damage analysis of parts. Written by experienced academics and industrial researchers and developers who know the problems of plastics engineers in their daily work - and the solutions - inside out, this book offers first-hand practical knowledge and intensive discussion. The book is aimed at industry, scientists and students involved in plastics and plastic engineering and aims to help them gain the necessary understanding of polymer materials and knowledge of practical testing and evaluation of plastics. This book summarizes a five year research project, as well as subsequent results regarding high power diode laser systems and their application in materials processing. The text explores the entire chain of technology, from the semiconductor technology, through cooling mounting and assembly, beam shaping and system technology, to applications in the processing of such

materials as metals and polymers. Includes theoretical models, a range of important parameters and practical tips. Industrial production in high-wage countries like Germany is still at risk. Yet, there are many counter-examples in which producing companies dominate their competitors by not only compensating for their specific disadvantages in terms of factor costs (e.g. wages, energy, duties and taxes) but rather by minimising waste using synchronising integrativity as well as by obtaining superior adaptivity on alternating conditions. In order to respond to the issue of economic sustainability of industrial production in high-wage countries, the leading production engineering and material research scientists of RWTH Aachen University together with renowned companies have established the Cluster of Excellence “Integrative Production Technology for High-Wage Countries”. This compendium comprises the cluster’s scientific results as well as a selection of business and technology cases, in which these results have been successfully implemented into industrial practice in close cooperation with more than 30 companies of the industrial production sector. 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. Mittlerweile ist der Weißbach das Standardwerk zu Werkstoffkunde. Kontinuierlich werden Verbesserungen vorgenommen, Abschnitte neu gestaltet und theoretische Grundlagen vertieft, um den Anforderungen der Fachhochschulen besser gerecht zu werden. Die Aktualisierung geltender Normen kennzeichnet jede neue Auflage, die jetzige wurde um jeweils ein Kapitel zu thermomechanischen Verfahren sowie zu nanostrukturierten Werkstoffen erweitert. The book summarizes many of the recent technical research accomplishments in the area of engineering polymers, such as oxygen containing main chain polymers (Polyether and Polyesters). The book emphasizes the various aspects of preparation, structure, processing, morphology, properties and applications of engineering polymers. Recent advances in the development and characterization of multi component polymer blends and composites (maco, micro and nano) based on engineering polymers are discussed in detail. The content of the book is unique as there are no books which deal with the recent advances synthesis, morphology, structure, properties and applications of engineering polymers and their blends and composites including nanocomposites. It covers an up-to-date record on the major findings and observations in the field. Impact and Dynamic Fracture of Polymers an Composites consist of thirty-nine reviewed and revised papers presented at the European Symposium on Impact and Dynamic Fractures of Polymers and composites held in Sardinia. The volume is divided into four sections. The first section deals with experimental methods and concepts in high-speed loading. Dynamic crack propagation is described in section 2, and rate-dependence and impact fracture toughness of plastics is dealt with in section 3. the last section is concerned with the impact damage of composites. Finally an extensive index facilitates the location of specific information for readers. This volume is the nineteenth in a series of special technical publications produced by the European Structural Integrity Society. It is an informative and original piece of work and can be thoroughly recommended to engineering designers, manufacturing engineers, and material scientists. Indeed, Impact and Dynamic Fracture of Polymers and Composites makes a significant contribution to the literature on this important subject, and will make essential reading to all those involved in this field of mechanical engineering. Von den physikalischen und chemischen Eigenschaften der Kunststoffe, ihren jeweiligen Verarbeitungsbedingungen für das Ur- und Umformen bis hin zu einer Vielzahl konkreter Anwendungen: Ein umfassenderes, vollständigeres Nachschlagewerk zum Thema Kunststoffe ist kaum vorstellbar. Dabei werden nicht nur die bekanntesten Standard-Kunststoffe und technischen Kunststoffe, sondern auch die Hochleistungspolymeren der letzten Jahre einschließlich ihrer Modifikationen, Polymerblends und thermoplastische Elastomere behandelt. Umfassende Stoffwerte-Tabellen, aussagekräftige Graphiken, ein erschöpfendes Stichwortverzeichnis, Kunststoff- und Handelsnamenregister: All dieses macht dieses Buch zu einem unverzichtbaren

Begleiter und wertvollen Helfer für jeden, der sich in irgendeiner Form mit Kunststoffen beschäftigt. 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. Auch wenn die industrielle Fertigung von Produkten in Hochlohnländern wie Deutschland gefährdet ist, gibt es viele Beispiele für Unternehmen, denen es gelingt, durch ihre Produktion den Wettbewerb zu dominieren – u. a. indem sie Verschwendung durch synchronisierende Integrativität minimieren und sich höchst adaptiv verhalten. In dem Buch werden die wissenschaftlichen Ergebnisse des Aachener Exzellenzclusters „Integrative Produktionstechnik für Hochlohnländer" dargestellt und deren erfolgreiche Umsetzung in die industrielle Praxis beschrieben. This book is an update to the first edition compiled and published in 1990 by William Woishnis. A lot has changed in the field since 1990 and a lot has not changed. There are new plastic materials. There has been a huge turnover in ownership of plastics producing companies. There has been a lot of consolidation, which of course means discontinued products. Thus, this update is much more extensive than the usual "next edition." It has been reorganized from a chemistry point of view. Plastics of similar polymer types are grouped into nine chapters. Each of these chapters includes an introduction with a brief explanation of the chemistry of the polymers used in the plastics. An extensive first chapter has been added as an introduction that summarizes the chemistry of making polymers, the formulation of plastics, testing and test methods, and plastic selection. Most plastic products and parts are expected to be used in environments other than room temperature and standard humidity conditions. Chapters 2-10 are a databank that serves as an evaluation of plastics as they are exposed to varying operating conditions at different temperatures, humidity, and other factors. Over 900 graphs for more than 45 generic families of plastics are contained in these chapters. Chapter 11 contains extensive mechanical and electrical data in tabular form. The tables contain data on several thousand plastics. Similarly, Chapter 12 contains thermal data on several thousand plastics. Data from the first edition have only been removed if those products were discontinued, and many products were. Product names and manufacturers have been updated. • Detailed introductions of plastics properties, testing procedures, and principles of plastics design. • The only "databook" available on the effects of temperature and humidity conditions on plastics and elastomers. • More than 1,000 graphs and tables allow for easy comparison between products. • Covers more than 70 types of plastics, and summarizes the chemistry of each type. The agricultural industry is dealing with enormous challenges across the globe, including the limited availability of arable lands and fresh water, as well as the effect of climate change. Machinery plays a crucial role in agriculture and farming systems, in order to feed the world's growing population. In the last decade, we have witnessed major advances in agricultural machinery and technologies, particularly as manufacturers and researchers develop and apply various novel ways of automation as well as the data and information gathering and analyzing capabilities of their machinery. This book presents the state-of-the-art information on the important innovations in the agricultural and horticultural industry. It reviews and presents different novel technologies and implementation of these technologies to optimize farming processes and food production. There are four sections, each addressing a specific area of development. Section I discusses the recent development of farm machinery and technology. Section II focuses on water and irrigation engineering. Section III covers harvesting and post-harvest technology. Section IV describes computer modelling and simulation. Each section highlights current industry trends and

latest research progress. This book is ideal for those working in or are associated with the fields of agriculture, agri-food chain and technology development and promotion. The second edition of the classic data book, The Effect of Creep and Other Time Related Factors on Plastics and Elastomers (originally published in 1991), has been extensively revised with the addition of an abundance of new data, the removal of all out-dated information, and the complete rebuilding of the product and company listings. This new edition also has been reorganized from a polymer chemistry point of view. Plastics of similar polymer types are grouped into chapters, each with an introduction that briefly explains the chemistry of the polymers used in the plastics. An extensive introductory chapter has also been added, which summarizes the chemistry of making polymers, the formulation of plastics, creep-testing, test methods, measurements, and charts, as well as theory and plastic selection. Each chapter is generally organized by product and concludes with comparisons of brand or generic products. The appendices include a list of trade names, plastics sold under those names, and manufacturer. A list of conversion factors for stress measures is also included. ABOUT THE AUTHOR Laurence W. McKeen earned a B.S. in Chemistry from Rensselaer Polytechnic Institute in 1973 and a Ph.D. in 1978 from the University of Wisconsin. He began his career with DuPont in 1978 as a mass spectroscopist, but moved into product development in the Teflon® Finishes group in 1980. Dr. McKeen has accumulated over 28 years of experience in product development and applications, working with customers in a wide range of industries, which has led to the creation of dozens of commercial products. More than 8 core chapters, which serve as a databank for evaluating the creep of plastics Over 600 uniform graphs for more than 45 generic families of plastics are explained Types of graphs include: (1) Isochronous Stress–Strain Curves at Various Times and Temperatures (2) Creep Strain or Creep Deformation versus Time at Various Stress Levels and Temperatures (3) Various Modulus Measures (Tensile, Compressive, Flexural) versus Time at Various Temperatures (4) Hoop Stress versus Time at Various Temperatures (5) Stress Cracking and Other Plastics Failure versus Time (6) Creep Rupture versus Time 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 (NOEl 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 (NDCl. 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. Multi-scale modelling of composites is a very relevant topic in composites science. This is illustrated by the numerous sessions in the recent European and International Conferences on Composite Materials, but also by the fast developments in multi-scale modelling software tools, developed by large industrial players such as Siemens (Virtual Material Characterization toolkit and MultiMechanics virtual testing software), MSC/e-Xstream (Digimat software), Simulia (micromechanics plug-in in Abaqus), HyperSizer (Multi-scale design of composites), Altair (Altair Multiscale Designer) This book is intended to be an ideal reference on the latest advances in multi-scale modelling of fibre-reinforced polymer composites, that is accessible for both (young) researchers and end users of modelling software. We target three main groups: This book aims at a complete introduction and overview of

the state-of-the-art in multi-scale modelling of composites in three axes: • ranging from prediction of homogenized elastic properties to nonlinear material behaviour • ranging from geometrical models for random packing of unidirectional fibres over meso-scale geometries for textile composites to orientation tensors for short fibre composites • ranging from damage modelling of unidirectionally reinforced composites over textile composites to short fibre-reinforced composites The book covers the three most important scales in multi-scale modelling of composites: (i) micro-scale, (ii) meso-scale and (iii) macro-scale. The nano-scale and related atomistic and molecular modelling approaches are deliberately excluded, since the book wants to focus on continuum mechanics and there are already a lot of dedicated books about polymer nanocomposites. A strong focus is put on physics-based damage modelling, in the sense that the chapters devote attention to modelling the different damage mechanisms (matrix cracking, fibre/matrix debonding, delamination, fibre fracture,...) in such a way that the underlying physics of the initiation and growth of these damage modes is respected. The book also gives room to not only discuss the finite element based approaches for multi-scale modelling, but also much faster methods that are popular in industrial software, such as Mean Field Homogenization methods (based on Mori-Tanaka and Eshelby solutions) and variational methods (shear lag theory and more advanced theories). Since the book targets a wide audience, the focus is put on the most common numerical approaches that are used in multi-scale modelling. Very specialized numerical methods like peridynamics modelling, Material Point Method, eXtended Finite Element Method (XFEM), isogeometric analysis, SPH (Smoothed Particle Hydrodynamics),... are excluded. Outline of the book The book is divided in three large parts, well balanced with each a similar number of chapters: This reference guide brings together a wide range of critical data on the effect of temperature on plastics and elastomers, enabling engineers to make optimal material choices and design decisions. The effects of humidity level and strain rate on mechanical and electrical properties are also covered. The data are supported by explanations of how to make use of the data in real world engineering contexts. High (and low) temperatures can have a significant impact on plastics processing and applications, particularly in industries such as automotive, aerospace, oil and gas, packaging, and medical devices, where metals are increasingly being replaced by plastics. Additional plastics have also been included for polyesters, polyamides and others where available, including polyolefins, elastomers and fluoropolymers. Entirely new sections on biodegradable polymers and thermosets have been added to the book. The level of data included – along with the large number of graphs and tables for easy comparison – saves readers the need to contact suppliers, and the selection guide has been fully updated, giving assistance on the questions which engineers should be asking when specifying materials for any given application. Trustworthy, current thermal data and best practice guidance for engineers and materials scientists in the plastics industry More than 1,000 graphs and tables allow for easy comparison between plastics Entirely new sections added on biopolymers and thermosets. This 8th international conference was dedicated to the critical role of blowing agents in foamed plastics and rubber. Foamed materials are being enhanced to replace dense solid polymers, reducing weight and costs. Chemical & environmental legislation is constantly changing and the foams industry is adapting to meet demands. Do you know about the latest developments? If you are working with polymer foams and need to be at the cutting edge of research, these conference proceedings are for you.

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