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Plastics Engineering, Fourth Edition, presents basic essentials on the properties and processing behaviour of plastics and composites. The book gives engineers and technologists a sound understanding of basic principles without the introduction of unduly complex levels of mathematics or chemistry. Early chapters discuss the types of plastics currently available and describe how designers select a plastic for a particular application. Later chapters guide the reader through the mechanical behaviour of materials, along with a detailed analysis of their major processing techniques and principles. All techniques are illustrated with numerous worked examples within each chapter, with further problems provided at the end. This updated edition has been thoroughly revised to reflect major changes in plastic materials and their processing techniques that have occurred since the previous edition. The plastics and processing techniques addressed within the book have been comprehensively updated to reflect current materials and technologies, with new worked examples and problems also included. Gives new engineers and technologists a thorough understanding of the essential properties and processing behavior of plastics and composites Presents a great source of foundational information for students, early-career engineers and researchers Demonstrates how basic engineering principles in design, mechanics of materials, fluid mechanics and thermodynamics may be applied to the properties, processing and performance of modern plastic materials ENGINEERING APPLICATIONS A comprehensive text on the fundamental principles of mechanical engineering Engineering Applications presents the fundamental principles and applications of the statics and mechanics of materials in complex mechanical systems design. Using MATLAB to help solve problems with numerical and analytical calculations, authors and noted experts on the topic Mihai Dupac and Dan B. Marghitu offer an understanding of the static behaviour of engineering structures and components while considering the mechanics of materials knowledge as the most important part of their design. The authors explore the concepts, derivations, and interpretations of general principles and discuss the creation of mathematical models and the formulation of mathematical equations. This practical text also highlights the solutions of problems solved analytically and numerically using MATLAB. The figures generated with MATLAB reinforce visual learning for students and professionals as they study the programs. This important text: Shows how mechanical principles are applied to engineering design Covers basic material with both mathematical and physical insight Provides an understanding of classical mechanical principles Offers problem solutions using MATLAB Reinforces learning using visual and computational techniques Written for students and professional mechanical engineers, Engineering Applications helpshone reasoning skills in order to interpret data and generate mathematical equations, offering different methods of solving them for evaluating and designing engineering systems. Mechanics of Engineering Materials is the definitive textbook on the mechanics and strength of materials for students of engineering principles throughout their degree course. Assuming little or no prior knowledge, the theory of the subject is developed from first principles covering all topics of stress and strain analysis up to final year level. Following on from the International Conference on Structural Engineering, Mechanics and Computation, held in Cape Town in April 2001, this book contains the Proceedings, in two volumes. There are over 170 papers written by Authors from around 40 countries worldwide. The contributions include 6 Keynote Papers and 12 Special Invited Papers. In line with the aims of the SEMC 2001 International Conference, and as may be seen from the List of Contents, the papers cover a wide range of topics under a variety of themes. There is a healthy balance between papers of a theoretical nature, concerned with various aspects of structural mechanics and computational issues, and those of a more practical nature, addressing issues of design, safety and construction. As the contributions in these Proceedings show, new and more efficient methods of structural analysis and numerical computation are being explored all the time, while exciting structural materials such as glass have recently come onto the scene. Research interest in the repair and rehabilitation of existing infrastructure continues to grow, particularly in Europe and North America, while the challenges to protect human life and property against the effects of fire, earthquakes and other hazards are being addressed through the development of more appropriate design methods for buildings, bridges and other engineering structures. Due to their continuing role in electricity generation, it is important that coal power plants operate as efficiently and cleanly as possible. Coal Power Plant Materials and Life Assessment reviews the materials used in coal plants, and how they can be assessed and managed to optimize plant operation. Part I considers the structural alloys used in coal plants. Part II then reviews performance modelling and life assessment techniques, explains the inspection and life-management approaches that can be adopted to optimize long term plant operation, and considers the technical and economic issues involved in meeting variable energy demands. Summarizes key research on coal-fired power plant materials, their behavior under operational loads, and approaches to life assessment and defect management Details the range of structural alloys used in coal power plants, and the life assessment techniques applicable to defect-free components under operational loads Reviews the life assessment techniques applicable to components containing defects and the approaches that can be adopted to optimize plant operation and new plant and component design The idea of this monograph is to present the latest results related to design and computation of engineering materials and structures. The contributions cover the classical fields of mechanical, civil and materials engineering up to biomechanics and advanced materials processing and optimization. The materials and structures covered can be categorized into modern steels and titanium alloys, composite materials, biological and natural materials, material hybrids and modern joining technologies. Analytical modelling, numerical simulation, the application of state-of-the-art design tools and sophisticated experimental techniques are applied to characterize the performance of materials and to design and optimize structures in different fields of engineering applications. A comprehensive textbook on the mechanics and strength of materials for students of engineering throughout their undergraduate career. Assuming little or no prior knowledge, all of the topics of stress and strain analysis are covered. Mechanical properties such as tensile behavior, fatigue, creep, fracture, and impact are discussed, including the introduction of such advanced topics as finite element analysis, fracture mechanics, and composite materials. Computers and spreadsheets are used throughout to show their power as problem-solving tools. Issues in Structural and Materials Engineering: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Structural and Materials Engineering. The editors have built Issues in Structural and Materials Engineering: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Structural and Materials Engineering in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Structural and Materials Engineering: 2011 Edition has been produced by the world’s leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/. A comprehensive textbook that encompasses the full range of material covered in undergraduate courses in Structures in departments of Civil and Mechanical Engineering. The approach taken aims to integrate a qualitative approach - looking at the physical reality of phenomena - with a quantitative approach - one that models the physical reality mathematically. An innovative introductory chapter looks at different types of structures - from the commonplace, such as chairs and aeroplanes, and the historically significant, such as the Pont du Gard in southern France, through to modern and novel structures such as the Bank of China building in Hong Kong - with a view to enthusing the reader into further study. Materials in Marine Technology covers the important aspects of metallurgy and materials engineering which must be taken into account when designing for marine environments. The purpose is to aid materials selection and the incorporation of materials data into the design, manufacture and inspection strategy. Recent advances in materials technology, including the use of new materials for marine applications Alloys, Polymers and Composites are examined in detail. The integrated approach is design oriented and is supported by recent case studies. Space flight is a comprehensive and innovative part of technology. It encompasses many fields of technology. This monograph presents a cross section of the total field of expertise that is called "space flight". It provides an optimal reference with insight into the design, construction and analysis aspects of spacecraft. The emphasis of this book is put on unmanned space flight, particularly on the construction of spacecraft rather than the construction of launch vehicles. The first textbook to cover both properties and processing of reinforced and unreinforced plastics to this level. It assumes no prior knowledge of plastics and emphasizes the practical aspects of the subject. In this second edition over half the book has been rewritten and the remainder has been updated and reorganized. Early chapters give an introduction to the types of plastics which are currently available and describe how a designer goes about selection of a plastic for a particular application. Later chapters lead the reader into more advanced aspects of mechanical design and analysis of polymer melt flow. All techniques developed are illustrated by numerous worked examples, and several problems are given at the end of each chapter - the solutions to which form an Appendix. This heavily revised second edition provides a comprehensive multi-disciplinary resource on blast injuries. It features detailed information on the basic science, engineering, and medicine associated with blast injuries. Clear, easy to understand descriptions of the basic science are accompanied by case studies of a variety of clinical problems including heterotopic ossification, hearing damage, and traumatic brain injury, enabling the reader to develop a deep understanding of how to appropriately apply the relevant science into their clinical practice. The use of prosthetics, orthotics and osseointegration in rehabilitation is also covered. Blast Injury Science and Engineering: A Guide for Clinicians and Researchers is a valuable interdisciplinary text primarily focused towards clinical medical professionals and trainees seeking to develop a thorough understanding of injury mechanisms, and the latest treatment techniques. In addition, this resource is of use to individuals in other fields whose work centres around blast injury science such as injury mitigation researchers, military scientists and engineers. This book on "Polymer Fracture" might as well have been called "Kinetic Theory of Polymer Fracture". The term "kinetic theory", however, needs some de finition or, at least, some explanation. A kinetic theory deals with and particu larly considers the effect of the existence and discrete size, of the motion and of the physical properties of molecules on the macroscopic behavior of an ensemble, gaseous or other. A kinetic theory of strength does have to consider additional aspects such as elastic and anelastic deformations, chemical and physical reactions, and the sequence and distribution of different disintegration steps. In the last fifteen years considerable progress has been made in the latter do mains. The deformation and rupture of molecular chains, crystals, and morphologi cal structures have been intensively investigated. The understanding of the effect of those processes on the strength of polymeric materials has especially been furthered by the development and application of spectroscopical methods (ESR, IR) and of the tools offracture mechanics. It is the aim of this book to relate the conventional and successful statistical, parametrical, and continuum mechanical treatment of fracture phenomena to new results on the behavior of highly stressed molecular chains. This book has its recent origins in a Master's course in Polymer Engineering at Manchester. It is a rather extended version of composite mechanics covered in about twenty five hours within a two-week intensive programme on Fibre Polymer Composites which also formed part of the UK Government and Industry-sponsored Integrated Graduate Development Scheme in Polymer Engineering. The material has also been used in other courses, and in teaching to students of engineering and of polymer technology both in the UK and in mainland Europe. There are already many books describing the analysis of and mechanical behaviour of polymer/fibre composites, so why write another? Most of these excellent books appear to be aimed at readers who already have a substantial understanding of stress analysis for linear elastic isotropic materials, who are thoroughly at home with mathematical analysis, and who seem often not to need much of the reassurance which numerical examples and illustrated applications can offer. In teaching the mechanics of composites to many groups of scientists, technologists and engineers, I have found that most of them need and seek an introduction before consulting the advanced texts. This book is intended to fill the gap. Throughout this text is interspersed a substantial range of examples to bring out the practical implications of the basic principles, and a wide range of problems (with outline solutions) to test the reader and extend understanding. The 16th European Conference of Fracture (ECF16) was held in Greece, July, 2006. It focused on all aspects of structural integrity with the objective of improving the safety and performance of engineering structures, components, systems and their associated materials. Emphasis was given to the failure of nanostructured materials and nanostructures including micro- and nano-electromechanical systems (MEMS and NEMS). A one-stop desk reference, for engineers involved in the use of engineered materials across engineering and electronics, this book will not gather dust on the shelf. It brings together the essential professional reference content from leading international contributors in the field. Material ranges from basic to advanced topics, including materials and process selection and explanations of properties of metals, ceramics, plastics and composites. A hard-working desk reference, providing all the essential material needed by engineers on a day-to-day basis Fundamentals, key techniques, engineering best practice and rules-of-thumb together in one quick-reference sourcebook Definitive content by the leading authors in the field, including Michael Ashby, Robert Messler, Rajiv Asthana and R.J. Crawford Aluminium Cast House Technology: Eighth Australasian Conference To ensure the best outcomes, cardiologist must have a deep understanding of the design, manufacturing, and malfunctions of implantable devices. This issue of Cardiac Electrophysiology thoroughly examines implantable devices, providing the most reliable and updated information. Topics include MRI conditionally safe pacemakers, complications in lead extraction, troubleshooting malfunctioning pacemakers and ICDs. This invaluable new book contains timely information about the assessment of academic library collections and the relationship of collection assessment to acquisition budgets. The rising cost of information significantly influences academic libraries' abilities to acquire the necessary materials for students and faculty, and public libraries' abilities to acquire material for their clientele. Collection Assessment and Acquisitions Budgets examines different aspects of the relationship between the assessment of academic library collections and the management of library acquisition budgets. Librarians, researchers, and representatives from major library vendors present studies and opinions on collection assessment and acquisition budgets. Collection Assessment and Acquisitions Budgets explores the issues and tools related to collection assessment and also presents insight into the relationships between libraries and vendors. Some of the topics covered by this volume include: current factors influencing libraries' abilities to acquire information an examination of trends affecting libraries and information vendors use studies and collection development management of acquisition funds criteria to evaluate information vendors relationships between libraries and vendors These informative chapters discuss current issues and present the latest research findings relating to collection assessment and acquisition budgets. Practicing librarians, students in the field, and librarians involved in administration and especially acquisitions and collection development will gain a better understanding of the complexities of collection and the factors affecting acquisitions budgets. Librarians will find practical information, including product reviews and opportunities to use automated tools in the assessment process, the benefits and problems of serial review projects, types of assistance vendors can provide libraries in the collection assessment process, the importance of collection assessment in the competition for funding, and ideas for the use of circulation data in the collection assessment process. Structural Analysis of Polymeric Composite Materials studies the mechanics of composite materials and structures and combines classical lamination theory with macromechanic failure principles for prediction and optimization of composite structural performance. This reference addresses topics such as high-strength fibers, commercially-available compounds, and the behavior of anisotropic, orthotropic, and transversely isotropic materials and structures subjected to complex loading. It provides a wide variety of numerical analyses and examples throughout each chapter and details the use of easily-accessible computer programs for solutions to problems presented in the text. Los Alamos National Laboratory is an incredible place. It was conceived and born amidst the most desperate of circumstances. It attracted some of the most brilliant minds, the most innovative entrepreneurs, and the most c- ative tinkerers of that generation. Out of that milieu emerged physics and engineering that beforehand was either unimagined, or thought to be f- tasy. One of the ?elds essentially invented during those years was the science of precision high explosives. Before 1942, explosives were used in munitions and commercial pursuits that demanded proper chemistry and con?nement for the necessary e?ect, but little else. The needs and requirements of the Manhattan project were of a much more precise and speci?c nature. Spatial and temporal speci?cations were reduced from centimeters and milliseconds to micrometers and nanoseconds. New theory and computational tools were required along with a raft of new experimental techniques and novel ways of interpreting the results. Over the next 40 years, the emphasis was on higher energy in smaller packages, more precise initiation schemes, better and safer formulations, and greater accuracy in forecasting performance. Researchers from many institutions began working in the emerging and expanding ?eld. In the midst of all of the work and progress in precision initiation and scienti?c study, in the early 1960s, papers began to appear detailing the ?rst quantitative studies of the transition from de?agration to detonation (DDT), ?rst in cast, then in pressed explosives, and ?nally in propellants. A comprehensive textbook on the mechanics and strength of materials for students of engineering throughout their undergraduate career. Assuming little or no prior knowledge, all of the topics of stress and strain analysis are covered. Mechanical properties such as tensile behavior, fatigue, creep, fracture, and impact are discussed, including the introduction of such advanced topics as finite element analysis, fracture mechanics, and composite materials. Computers and spreadsheets are used throughout to show their power as problem-solving tools. Resumen: Are you a post-graduate student in Engineering, Science or Technology who needs to know how to: Prepare abstracts, theses and journal papers Present your work orally Present a progress report to your funding body Would you like some guidance aimed specifically at your subject area? ... This is the book for you; a practical guide to all aspects of post-graduate documentation for Engineering, Science and Technology students, which will prove indispensable to readers. Writing for Science and Engineering will prove invaluable in all areas of research and writing due its clear, concise style. The practical advice contained within the pages alongside numerous examples to aid learning will make the preparation of documentation much easier for all students. The Mechanical Behaviour of Engineering Materials aims to relate properties and structure, and to provide a theoretical basis upon which to extrapolate when conditions or materials outside previous experience arise. The present text refers primarily to metals and alloys, other (non-crystalline) solids are treated rather less fully. This is largely dictated by the state of knowledge at the present time, for although there is a large mass of data concerning the properties of non-metallic materials, much of this is empirical and a full explanation is made difficult by the complexities of an irregular initial structure. The book can be divided into the three sections covering constitution, properties, and significance of test data. Separate chapters discuss properties such as heterogeneity, elasticity, plasticity, and fracture. Subsequent chapters deal with tensile and hardness tests; creep, fatigue and impact tests; and the selection of engineering materials. Throughout the text the author has endeavored to confine the discussion to those aspects of materials science which appear to be reasonably well understood at the present time. Your must-have bench reference for cardiac electrophysiology is now better than ever! This globally recognized gold standard text provides a complete overview of clinical EP, with in-depth, expert information that helps you deliver superior clinical outcomes. In this updated 5th Edition, you'll find all-new material on devices, techniques, trials, and much more – all designed to help you strengthen your skills in this fast-changing area and stay on the cutting edge of today's most successful cardiac EP techniques. Expert guidance from world authorities who contribute fresh perspectives on the challenging clinical area of cardiac electrophysiology. New focus on clinical relevance throughout, with reorganized content and 15 new chapters. New coverage of balloons, snares, venoplasty, spinal and neural stimulation, subcutaneous ICDs and leadless pacing, non-CS lead implantation, His bundle pacing, and much more. New sections on cardiac anatomy and physiology and imaging of the heart, a new chapter covering radiography of devices, and thought-provoking new information on the basic science of device implantation. State-of-the-art guidance on pacing for spinal and neural stimulation, computer simulation and modeling, biological pacemakers, perioperative and pre-procedural management of device patients, and much more.

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