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the selection and application of engineered materials is an integrated process that requires an understanding of the interaction between materials properties manufacturing characteristics design considerations and the total life cycle of the product this reference book on engineering plastics provides practical and comprehensive coverage on how the performance of plastics is characterized during design property testing and failure analysis the fundamental structure and properties of plastics are reviewed for general reference and detailed articles describe the important design factors properties and failure mechanisms of plastics the effects of composition processing and structure are detailed in articles on the physical chemical thermal and mechanical properties other articles cover failure mechanisms such as crazing and fracture impact loading fatigue failure wear failures moisture related failure organic chemical related failure photolytic degradation and microbial degradation characterization of plastics in failure analysis is described with additional articles on analysis of structure surface analysis and fractography

the seventh edition of this classic reference work once more provides a comprehensive overview of commercially available plastics materials bridging the gap between theory and practice it enables scientists to understand the commercial implications of their work as well as providing technologists with a theoretical background since the previous edition several new materials have been announced many of these materials result from metallocene catalyst technology in addition developments also continue with condensation polymers with several new polyester type materials of interest for bottle blowing and or degradable plastics new phenolic type resins have also been announced as with previous editions an explanation of the properties of these new materials in terms of their structure and morphology involving the principles laid down in the earlier chapters is presented

materials science and engineering an introduction promotes student understanding of the three primary types of materials metals ceramics and polymers and composites as well as the relationships that exist between the structural elements of materials and their properties the 10th edition provides new or updated coverage on a number of topics including the materials paradigm and materials selection charts 3d printing and additive manufacturing biomaterials recycling issues and the hall effect

this text is an unbound three hole punched version fundamentals of materials science and engineering an integrated approach binder ready version 5th edition takes an

integrated approach to the sequence of topics one specific structure characteristic or property type is covered in turn for all three basic material types metals ceramics and polymeric materials this presentation permits the early introduction of non metals and supports the engineer s role in choosing materials based upon their characteristics using clear concise terminology that is familiar to students fundamentals presents material at an appropriate level for both student comprehension and instructors who may not have a materials background this text is an unbound three hole punched version access to wileyplus sold separately

materials selection in mechanical design sixth edition winner of a 2018 textbook excellence award texty describes the procedures for material selection in mechanical design to ensure that the most suitable materials for a given application are identified from the full range of materials and section shapes available recognized as the world s leading materials selection textbook users will find a unique and innovative resource for students engineers and product industrial designers selected revisions to this new edition ensure the book will continue to meet the needs of all those whose studies or careers involve selecting the best material for the project at hand includes new or expanded coverage of materials selection in areas such as additive manufacturing biomedical manufacturing digital manufacturing and cyber manufacturing includes an update to the hybrid chapter which has been enhanced with expanded hybrid case presents improved pedagogy including new worked examples throughout the text case studies homework problems and mini projects to aid in student learning maintains its hallmark features of full color presentation with numerous ashby materials selection charts high quality illustrations and a focus on sustainable design

this important book provides a comprehensive account of the advances that have occurred in fire science in relation to a broad range of materials the manufacture of fire retardant materials is an active area of research the understanding of which can improve safety as well as the marketability of a product the first part of the book reviews the advances that have occurred in improving the fire retardancy of specific materials ranging from developments in phosphorus and halogen free flame retardants to the use of nanocomposites as novel flame retardant systems key environmental issues are also addressed the second group of chapters examines fire testing issues and regulations a final group of chapters addresses the application of fire retardant materials in such areas as composites automotive materials military fabrics and aviation materials with its distinguished editors and array of international

contributors this book is an essential reference for producers manufacturers retailers and all those wishing to improve fire retardancy in materials it is also suitable for researchers in industry or academia reviews advances in improving the retardancy of materials addresses key environmental issues examines fire testing issues and regulations and the challenges involved

using extensive and novel new research this book explores one of the long standing challenges in legal education the prospects for bringing legal theory into the training of future lawyers

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