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written by engineers it uses a practical applied approach that is more oriented to engineering than any other text available instead of a few engineering examples mixed in with examples from other fields all of its unique problem sets reflect the types of situations encountered by engineers in their working lives

no engineering structure can be built on the ground or within it without the influence of geology being experienced by the engineer yet geology is an ancillary subject to students of engineering and it is therefore essential that their training is supported by a concise reliable and usable text on geology and its relationship to engineering in this book all the fundamental aspects of geology are described and explained but within the limits thought suitable for engineers it describes the structure of the earth and

the operation of its internal processes together with the geological processes that shape the earth and produce its rocks and soils it also details the commonly occurring types of rock and soil and many types of geological structure and geological maps care has been taken to focus on the relationship between geology and geomechanics so emphasis has been placed on the geological processes that bear directly upon the composition structure and mechanics of soil and rocks and on the movement of groundwater the descriptions of geological processes and their products are used as the basis for explaining why it is important to investigate the ground and to show how the investigations may be conducted at ground level and underground specific instruction is provided on the relationship between geology and many common activities undertaken when engineering in rock and soil

a comprehensive textbook on all aspects of road engineering from the planning stages through to the design construction and maintenance of road pavements this edition has been expanded and updated to take into account developments in the field

a key reference for reliability professionals worldwide and widely adopted as a textbook by universities across many countries this material also aligns with the certified reliability engineer cre curriculum set by the american society for quality asq making it a valuable resource for those preparing for the cre certification with a strong focus on practical engineering applications the sixth edition of practical reliability engineering continues to offer a balanced blend of reliability theory and real world applications this edition has been comprehensively updated to reflect the latest advancements in industry practices and state of the art reliability engineering each chapter includes practical examples and course instructors have access to a solutions manual and powerpoint slides for training support available from the author at kleyner consulting sbcglobal net the sixth edition introduces several

significant updates every chapter has been refreshed with new material and two new chapters repairable systems and human reliability have been added this edition also covers emerging topics in reliability engineering such as prognostics and health management phm agile hardware development the reliability challenges posed by the ongoing miniaturization of integrated circuits and many more ensuring that the content remains relevant to modern technological developments written by two highly qualified reliability professionals each with decades of experience this book covers nearly every aspect of reliability science and practice making it a comprehensive reference guide practical reliability engineering has over the years helped to train multiple generations of reliability engineers and continues to be an essential resource for both emerging professionals and seasoned experts alike

designed for chemical engineering students and industry professionals this book shows how to write reusable computer programs written in the three languages c c and matlab it is accompanied by a cd rom featuring source code executables figures and simulations it also explains each program in detail

design and optimization of thermal systems third edition with matlab applications provides systematic and efficient approaches to the design of thermal systems which are of interest in a wide range of applications it presents basic concepts and procedures for conceptual design problem formulation modeling simulation design evaluation achieving feasible design and optimization emphasizing modeling and simulation with experimentation for physical insight and model validation the third edition covers the areas of material selection manufacturability economic aspects sensitivity genetic and gradient search methods knowledge based design methodology uncertainty and other aspects that arise in practical situations this edition features many new and revised

examples and problems from diverse application areas and more extensive coverage of analysis and simulation with matlab

materials and the environment eco informed material choice second edition is the first book devoted solely to the environmental aspects of materials and their selection production use and disposal by one of the world s foremost materials authorities it explores human dependence on materials and its environmental consequences and provides perspective background methods and data for thinking about and designing with materials to minimize their environmental impact organized into 15 chapters this new edition looks at the history of our increasing dependence on materials and energy it explains where materials come from and how they are used in a variety of industries along with their life cycle and their relationship to energy and carbon it also examines controls and economic instruments that hinder the use of engineering materials considers sustainability from a materials perspective and highlights the importance of low carbon power and material efficiency furthermore it discusses the mechanical thermal and electrical properties of engineering metals polymers ceramics composites and natural materials in relation to environmental issues the volume includes new chapters on materials for low carbon power and material efficiency all illustrated by in text examples and expanded exercises there are also new case studies showing how the methods discussed in the book can be applied to real world situations this book is intended for instructors and students of engineering materials science and industrial product design as well as for materials engineers and product designers who need to consider the environmental implications of materials in their designs introduces methods and tools for thinking about and designing with materials within the context of their role in products and the environmental consequences contains numerous case studies showing how the methods discussed in the book can be applied to real world situations includes full color data sheets for 40 of the most widely used materials featuring such environmentally relevant information as their annual production and reserves embodied energy and

process energies carbon footprints and recycling data new to this edition new chapter of case studies of eco audits illustrating the rapid audit method new chapter on materials for low carbon power examines the consequences for materials supply of a major shift from fossil fuel based power to power from renewables new chapter exploring material efficiency or design and management for manufacture to provide the services we need with the least production of materials recent news clips from the world press that help place materials issues into a broader context are incorporated into all chapters end of chapter exercises have been greatly expanded the datasheets of chapter 15 have been updated and expanded to include natural and man made fibers

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