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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

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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

addressing the growing global concern for sustainable engineering this title is devoted exclusively to the environmental aspects of materials

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