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an understanding of mechanisms for mechanical behavior is essential to applications of new materials and new designs using established materials focusing on the similarities and differences in mechanical response within and between the material classes this book provides a balanced approach between practical engineering applications and the science behind mechanical behavior of materials covering the three main material classes metals ceramics and polymers topics covered include stress strain tensors elasticity dislocations strengthening mechanisms high temperature deformation fracture fatigue wear and deformation processing designed to provide a bridge between introductory coverage of materials science and strength of materials books and specialized treatments on elasticity deformation and mechanical processing this title successfully employs the principles of physics and mathematics to the materials science topics covered provides short biographical or historical background on key contributors to the field of materials science includes over one hundred new figures and mechanical test data that illustrate the subjects covered features numerous examples and more than 150 homework problems with problems pitched at three levels

this outstanding text offers a comprehensive treatment of the principles of the mechanical behavior of materials appropriate for senior and graduate courses it is distinguished by its focus on the relationship between macroscopic properties material microstructure and fundamental concepts of bonding and crystal structure the current second edition retains the original editions extensive coverage of nonmetals while increasing coverage of ceramics composites and polymers that have emerged as structural materials in their own right and are now competitive with metals in many applications it contains new case studies includes solved example problems and incorporates real life examples because of the books extraordinary breadth and depth adequate coverage of all of the material requires two full semesters of a typical three credit course since most curricula do not have the luxury of allocating this amount of time to mechanical behavior of materials the text has been designed so that material can be culled or deleted with ease instructors can select topics they wish to emphasize and are able to proceed at any level they consider appropriate

this is an undergraduate text for mechanical and materials engineers

this is a textbook on the mechanical behavior of materials for mechanical and materials engineering it emphasizes quantitative problem solving this new edition includes treatment of the effects of texture on properties and microstructure in chapter 7 a new chapter 12 on discontinuous and inhomogeneous deformation and treatment of foams in chapter 21

rock salt formations have long been recognized as a valuable resource not only for salt mining but for construction of oil and gas storage caverns and for isolation of radioactive and other hazardous wastes current interest is fast expanding towards construction and re use of solution mined caverns for storage of renewable energy in the form of hydrogen compressed air and other gases evaluating the long term performance and safety of such systems demands an understanding of the coupled mechanical behavior and transport properties of salt this volume presents a collection of 60 research papers defining the state of the art in the field topics range from fundamental work on deformation mechanisms and damage of rock salt to compaction of engineered salt backfill the latest constitutive models are applied in computational studies addressing the evolution and integrity of storage caverns repositories salt mines and entire salt formations while field studies document ground truth at multiple scales the volume is structured into seven themes microphysical processes and creep models laboratory testing geological isolation systems and geotechnical barriers analytical and numerical modelling monitoring and site specific studies cavern and borehole abandonment and integrity energy storage in salt caverns the mechanical behavior of salt will appeal to graduate students academics engineers and professionals working in the fields of salt mechanics salt mining and geological storage of energy and wastes but also to researchers in rock physics in general

covers stress strain equations mechanical testing yielding and fracture under stress fracture of cracked members and fatigue of materials

technical contributions contained in this volume characterize continuity of science engineering and modeling regarding the mechanical behavior of salt these papers evidence relationships from microscopic dislocation structure to modeling applications over kilometer dimensions a reach of more than ten orders of magnitude the book is arranged also

this collection of papers on research into and management of underground structures in salt formations represents the state of the art on applications of salt mechanics in mines and storage caverns for gas hydrocarbon radioactive waste and toxic waste disposal the contributions cover laboratory experiments constitutive numerical modeling and field investigations and deal with creep damage thermo hydro mechanical and chemical coupled effects lessons learnt from real sites and structures and in situ monitoring the book is organized into eight

topics laboratory investigations and constitutive modeling coupled processes and hydro chemical effects thmc field measurements and back analyses numerical modeling dry mining post mining and backfilling liquid hydrocarbon storage and brine production caverns gaseous hydrocarbon storage and compressed air energy storage hazardous and radioactive waste disposal mechanical behavior of salt vii will appeal to academics engineers and professionals involved in salt mechanics

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