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tensile stresses may exist in many engineering structures such as rigid and flexible pavements and within dams and embankments the existence of tensile stresses in these structures is not harmful however these stresses generate tensile strains and if the failure tensile strain is exceeded the integrity of the structure might be threatened most previous research concerned with the behavior of materials under tensile stress has been conducted on brittle materials such as concrete and rock while materials such as soils have received little or no attention three factors can be considered as the major contributors to this neglect a stability analysis and design practice assume soil to resist compression and shear only b lack of adequate theory which can describe soil behavior under tension with reasonable accuracy and c reliable testing devices which can impose and measure tensile stress and strain have not yet been developed while information on the tensile behavior of soils is lacking there exists a relatively large amount of data on the tensile strength of brittle materials as discussed in this report modified author abstract

metals tensile testing mechanical testing ambient temperature temperature mechanical properties of materials test specimens test equipment testing conditions measurement characteristics yield strength proof stress tensile strength elongation elongation at fracture

this book offers a comprehensive and in depth exploration of the most widely used test methods for characterizing the deformation and failure behavior of materials it presents a thorough treatise on mechanical testing providing a valuable resource for researchers engineers and students seeking to understand the mechanical properties and performance of materials across various applications the book is organized into ten chapters dedicated to specific test methods including tensile compression bending torsion multiaxial indentation fracture fatigue creep high strain rates nondestructive evaluation ensuring a thorough examination of each technique s principles procedures and applications it features two special chapters focusing specifically on the mechanical characterization of concrete and fiber composite materials these chapters delve into the unique aspects and challenges associated with testing and analyzing these specific materials

this springer handbook of metrology and testing presents the principles of metrology the science of measurement and the methods and techniques of testing determining the characteristics of a given product as they apply to chemical and microstructural analysis and to the measurement and testing of materials properties and performance including modelling and simulation the principal motivation for this handbook stems from the increasing demands of technology for measurement results that can be used globally measurements within a local laboratory or manufacturing facility must be able to be reproduced accurately anywhere in the world the book integrates knowledge from basic

sciences and engineering disciplines compiled by experts from internationally known metrology and testing institutions and academe as well as from industry and conformity assessment and accreditation bodies the commission of the european union has expressed this as there is no science without measurements no quality without testing and no global markets without standards

vols 61 66 include technical papers

mechanical properties of materials proof stress tensile strength testing conditions yield strength metals tensile testing thermal testing test specimens test equipment high temperature testing measurement characteristics mechanical testing

applied metrology for manufacturing engineering stands out from traditional works due to its educational aspect illustrated by tutorials and laboratory models it is accessible to users of non specialists in the fields of design and manufacturing chapters can be viewed independently of each other this book focuses on technical geometric and dimensional tolerances as well as mechanical testing and quality control it also provides references and solved examples to help professionals and teachers to adapt their models to specific cases it reflects recent developments in iso and gps standards and focuses on training that goes hand in hand with the progress of practical work and workshops dealing with measurement and dimensioning

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