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*Orthotropic material -  
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There are many materials which, although well modelled using the linear elastic model, are not nearly isotropic. Examples are wood, composite materials and many biological materials. The mechanical properties of these materials differ in different directions.

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Materials with this direction dependence are called anisotropic (see Section 5.2.7).

## *Mechanics Of Anisotropic Materials Engineering*

The material symmetry is a background and anisotropy is a core around which the book is formed. In this way a revision of classical rules of enhanced constitutive description



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of materials is  
required.

## Engineering Materials *STRUCTURAL AND GEOTECHNICAL ENGINEERING*

In material science and solid mechanics, orthotropic materials have material properties at a particular point, which differ along three mutually- orthogonal axes, where each axis has twofold rotational symmetry. These

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directional differences  
in strength can be  
quantified with  
Hankinson's equation.

## Materials

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A method to  
characterize the linear  
elastic properties of  
transversely isotropic  
soft materials is  
proposed, based on the  
combination of  
dynamic shear testing  
(DST) and asymmetric

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indentation. The procedure was demonstrated by characterizing a nearly incompressible transversely isotropic soft material.

*Anisotropic yield surfaces after large shear deformations ...*

Abstract Biological materials exhibit anisotropic characteristics because of the anisometric nature of their

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constituents and their preferred alignment within interfacial matrices. The regulation of structural orientations is the basis for material designs in nature and may offer inspiration for man-made materials.

*Modeling Cross  
Anisotropy in Granular  
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In this study, we present a multiscale

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experimental and computational approach to investigate the anisotropic design principles of a ganoid scale of an ancient fish, *Polypterus senegalus*, which possesses a unique quad-layered structure at the micrometer scale with nanostructured material constituting each layer. The anisotropy of the outermost

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*Elastic Characterization  
of Transversely  
Isotropic Soft ...*

Rolling contact fatigue often initiates in the highly deformed surface layer of railway rails. However, the behavior of pearlitic rail steels, subjected to such large shear strains, is not well known. Due to buckling, it is not possible to obtain the large shear

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deformation with tubular test bars. We have, therefore, developed a novel experimental methodology. Large shear strains (up to 1.13 ...

*Mechanics of  
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This paper describes a new method for estimating anisotropic mechanical properties of fibrous soft tissue by

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imaging shear waves induced by focused ultrasound (FUS) and analyzing

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Describes the  
mechanics of  
engineering materials,  
among them both  
conventional and non-  
conventional materials



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Mechanics of Materials, a journal in the field of solid mechanics and materials, aims to disseminate quality research work in the

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broad spectrum of engineering and natural materials. It reports original research with a mechanically oriented

*Introduction to  
Mechanics of  
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Anisotropy. Anisotropic solids also are common in nature and technology. Examples are single crystals; polycrystals in which the grains are not

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completely random in their crystallographic orientation but have a "texture," typically owing to some plastic or creep flow process that has left a preferred grain orientation; fibrous biological materials such as wood or bone; and composite materials that, on a microscale, either have the structure of reinforcing fibres in a matrix, with fibres ...

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composite materials  
was in the last decade  
one of the most rapidly  
explored engineering  
area, basically due to  
huge progress in  
composite fabrication  
and use. The main  
problem referred in  
this chapter is how to  
correctly predict  
averaged effective  
properties by

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implementation of  
numerous  
homogenization  
techniques.

## *Estimation of Anisotropic Material Properties of Soft ...*

In recent times,  
Additive Manufacturing  
(AM) has proven to be  
an indispensable  
technique for  
processing complex  
three-dimensional  
parts because of the  
versatility and ease of

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fabrication it offers. H...

*Mechanics of  
Anisotropic Materials |  
Jacek J. Skrzypek ...*

Abstract. This book is focused on constitutive description of mechanical behavior of engineering materials: both conventional (e.g., polycrystalline homogeneous isotropic or anisotropic metallic materials) and nonconventional ones (e.g., heterogeneous

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multicomponent  
usually anisotropic  
composite materials)  
fabricated by modern  
material engineering.  
Effective material  
properties at the  
macrolevel depend on  
both the material  
microstructure  
(isotropic or originally  
anisotropic in general  
case ...

*Influence of Pore  
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(acquired anisotropy).  
The material symmetry  
is a background and  
anisotropy is a core  
around which the book  
is formed. In this way a

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