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Behaviours of
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*Homogeneous, Isotropic
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materials noc18-me58*

Lec 8-General

Anisotropic Material

08.4 Generalized

Hooke's Law

Classification of

Materials (Isotropic

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*Orthotropic
Anisotropic*) What's a
Tensor?

~~AMORPHOUS AND
CRYSTALLINE~~

~~SOLIDS~~ Composite
materials Calculations
in 5 min. (Lamina
& Laminate)

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and Anisotropic
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Properties for a 3D
Laminate Stack~~

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Law v5 7 Stress strain
matrix and equation
for a thin laminate
with an angle~~

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and Tensor Properties
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88

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Anna Ploszajski

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isotropic Material~~

~~Difference Lec 27:~~

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of engineering
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(polycrystalline
homogeneous
isotropic or
anisotropic metallic
materials) and non-
conventional
(heterogeneous
multicomponent

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(anisotropic composite materials).

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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.

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The book is focused
on constitutive
description of
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of engineering materials: both conventional (polycrystalline homogeneous isotropic or anisotropic metallic materials) and non-conventional (heterogeneous multicomponent anisotropic composite materials). Effective material properties at

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the macro-level
depend on both the
material
microstructure
(originally isotropic or
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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.

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Engineering Materials

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

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

6.3 Anisotropic

Elasticity -

Engineering

Abstract This book is
focused on
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description of
mechanical behavior

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materials: both
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