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stresses and
strains Top
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Books - Strength of Materials (Part 01)

*Average Normal
Stress Example 1
- Mechanics of
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**Problem on
Simple Stresses
and Strain (Part
-2) | Simple**

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Strain | Strength
of Materials |
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Normal and Shear
Stresses (2 of
20)**

Problem on
Compound
(composite)
bars, Mechanics
of Solids
(Strength of

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Problem on bars
of varying cross-
section , Simple
Stresses and
strains,

Mechanics of
Solids (SOM)

Timoshenko

\u0026

Gere:Strength of
Materials:

Chapter 1:

Solved Example 3

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**Statically
Indeterminate
Axially Loaded
Rod Example 2 -
Mechanics of
Materials
Mechanics of
Materials -
Normal Strain
Example *Euler-
Bernoulli vs
Timoshenko Beam
Theory* ~~Strength
of Materials;~~**

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~~Problem 104;
Simple Stresses
Principle of
Superposition (~~
Strength of
Material or MOM)

Lec-1 **Simple
Stress examples
(Strength of
Materials)**

Tensile Stress
\u0026 Strain,
Compressive
Stress \u0026

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*Shear Stress -
Basic*

Introduction

~~Strength of
Materials (Part
1: Stress and
Strain)~~

Overview of
normal and shear
stress#9. STRESS

~~AND STRAIN~~

~~EXAMPLE PROBLEMS
WITH SOLUTION~~

Axial

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Composite Bar
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|| Lecture 7a**

~~Strength of
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Loading SFD and
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(udl and point
load) Timoshenko
& Gere:
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02: axial force,
shear and

bending moment.

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stress. chapter

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Beams. A fixed beam AB of length 6m carries point load of 160 kN and 120 kN at a distance of 2m and 4m from the left end A. Find the fixed end moments and the reactions at the supports. Draw B.M and S.F

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PREVIOUS YEAR
SOLVED QUESTIONS**

...

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Civil - Strength
of Materials -
Columns Civil -

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Columns A mild steel tube 4m long, 3cm internal diameter and 4mm thick is used as a strut with both ends hinged.

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Civil - Strength**

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Strength Of Columns - Columns

SOLVED PROBLEMS
IN BEARING

STRESS. Problem
125 In Fig.

1-12, assume
that a 20-mm-
diameter rivet
joins the plates
that are each
110 mm wide. The
allowable
stresses are 120

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MPa for bearing
in the plate
material and 60
MPa for shearing
of rivet. Free

Determine (a)
the minimum
thickness of
each plate; and
(b) the largest
average tensile
stress in the
plates.

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The shear
perimeter is $b_0 =$

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$\pi(12 + d) = 99.0$ ". The permissible shear force around the pile will be, $V_c = 4\sqrt{f_c} b_o d = 4\sqrt{3000} (99) (19.5) / 1000 = 423$ kips. Since the actual shear force is the nominal pile reaction, $P_n =$

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$P_u/\phi = 59.0/0.85$
 $= 69.4 \text{ kips} <$
423 kips, the
pile will not
punch through
the pile cap
(footing).

1000 Solved Problems

Useful solutions
for standard
problems Preface
Modelling is a

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key part of design. In the early stage, approximate modelling establishes whether the concept will work at all, and identifies the combination of material properties that maximize

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Useful solutions
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Solutions.
Problem #1.
Principal
stresses:
Substitute

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values from
above yields:
The maximum
shear stress is
determined by
these two
principal
stresses as:
Note that the
other maximum
shear stresses
are less than
this value.

Problem #2. The

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total strain is:
This total
strain is equal
to:

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ME 437 –

Strength of Materials Solutions

Strength of
Materials.

Chapter 01 -

Simple Stresses.

Normal Stresses;

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Shear Stress;
Bearing Stress;
Thin-walled
Pressure

Vessels; Chapter
02 - Strain;
Chapter 03 -
Torsion; Chapter
04 - Shear and
Moment in Beams;
Chapter 05 -
Stresses in
Beams; Chapter
06 - Beam

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Deflections;
Chapter 07 -
Restrained
Beams;

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| MATHalino**

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reference for
students
pursuing Higher
National Diploma

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to gate them.

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Bending Moment,
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Beams, Pure
Bending,
Centroid and
Moment of

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Torsion.

Mechanical -
Strength of
Materials -
Torsion. 1.A
metal bar of

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10mm dia when subjected to a pull of 23.55KN gave an elongation of 0.3mm on a gauge length of 200mm. In a torsion test maximum shear stress of 40.71N/mm^2 was measured on a bar of ...

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Beams. Civil -
Strength of
Materials -
Indeterminate
Beams. A fixed
beam AB of
length 6m

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carries point
load of 160 kN
and 120 kN at a
distance of 2m
and 4m from the
left end A. Find
the fixed end
moments and the
reactions at the
supports.

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