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**Strength of
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Review**

1-12, assume

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that a 20-mm-diameter rivet joins the plates that are each 110 mm wide. The allowable stresses are 120 MPa for bearing in the plate material and 60 MPa for shearing of rivet.

Determine (a)
the minimum

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

**Strength of
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Problems and
Solutions**

Solution 116.

Problem 117 Find
the smallest

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diameter bolt
that can be used
in the clevis
shown in Fig.

1-11b if $P = 400$
kN. The shearing
strength of the
bolt is 300 MPa.

Solution 117.

Problem 118 A
200-mm-diameter
pulley is
prevented from
rotating

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relative to
60-mm-diameter
shaft by a 70-mm-
long key, as
shown in Fig.
P-118.

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Problem #1 ? $x =$
10500 psi ,
Tensile ? $y =$
?5500 psi ? $xy =$

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4000 psi $\sigma_3 = 0$

Principal

stresses: $\sigma_1, \sigma_2, \sigma_3$

$\sigma_1, \sigma_2 = x \pm \sqrt{xy^2}$

$\sigma_3 = 0$

$\sigma_1, \sigma_2 = x \pm \sqrt{xy^2}$

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Solution 1.2-9
Loading crane
with girder and
cable SECTION
1.2 Normal
Stress and
Strain 7 Problem
1.2-9 A loading
crane consisting
of a steel

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girder

ABC supported by
a cable BDis
subjected to a
load P (see
figure).

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tells us about
how objects
withstand strain
and stress and

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rely upon
geometrical and
physical
considerations
of deformations.

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material or

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construction materials being used are wood, concrete, steel etc. and this subject takes care of all of these things and study these materials strength via strain, stress, bending, buckling,

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torsion and
other similar
phenomenon.

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meticulous
manner that
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grasp the
various nuances
of this diverse
and expansive
topic. Table OF
Content : 1.
Simple Stress

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and Strain 2.

Elastic constant

3. Principle

Stress and

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1. Simple
Stresses Simple
stresses are
expressed as the
ratio of the
applied force
divided by... 2.
Normal Stress
Stress Stress is
the expression
of force applied
to a unit area
of surface. 3.
Solution 104

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Problem 105 A
homogeneous 800
kg bar AB is
supported ...

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About Strength
of Materials
Strength of
Materials (also
known as

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Mechanics of
Materials) is
the study of the
internal effect
of external
forces applied
to structural
member. Stress,
strain,
deformation
deflection,
torsion,
flexure, shear
diagram, and

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moment diagram
are some of the
topics covered
by this subject.

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book provides
comprehensive
coverage of the
key topics in
strength of
materials—with
an emphasis on
applications,
problem solving,
and design of
structural
members,
mechanical
devices and

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materials .

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introduction to
mechanics of
deformable

bodies. chapter

02: axial force,
shear and

bending moment.

chapter 03:

stress. chapter

04: strain.

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chapter 05:

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chapter 06:

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