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Engineering
Mechanics By
Ferdin Singer 2
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**Engineering
Mechanics
By Ferdin
Singer 2
Edition**

Includes Part 1,
Number 2: Books and
Pamphlets, Including
Serials and
Contributions to
Periodicals (July -

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Engineering
Mechanics By

December)
Strength of Materials
for Technicians

covers basic concepts
and principles and
theoretical
explanations about
strength of materials,
together with a
number of worked
examples on the
application of the
different principles.

The book discusses

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simple trusses, simple
stress and strain,

temperature, bending,

and shear stresses,

as well as thin-walled

pressure vessels and

thin rotating cylinders.

The text also

describes other stress

and strain contributors

such as torsion of

circular shafts, close-

coiled helical springs,

shear force and

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bending moment, strain energy due to direct stresses, and second moment of area. Testing of materials by tests of tension, compression, shear, cold bend, hardness, impact, and stress concentration and fatigue is also tackled. Students taking courses in strength of materials

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and engineering and
civil engineers will find

the book invaluable.

Solutions Manual to

Accompany

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Mechanics, Statics

and Dynamics, Third

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Loose Leaf for

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This textbook teaches students the basic mechanical behaviour of materials at rest (statics), while developing their mastery of engineering methods of

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analysing and
solving problems.

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description

A Cumulative

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The 7th edition

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text continues

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body diagrams,
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study tools.
Consisting
entirely of SI
units and
measurement,
this text aims
to provide
readers with
comprehensive
understanding of
the role and
scope of
mechanics. It
features the

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option of using
computers to

solve problems,

adding a

dimension of

realism to

mechanics.

MECHANICS OF

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Engineering

Mechanics, Etc

(in S.I. Units)

Statics

Readers gain a

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solid understanding
of Newtonian
dynamics and its
application to real-
world problems
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edition clearly

introduces critical

concepts using

learning features

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that connect real problems and examples with the fundamentals of engineering mechanics.

Readers learn how to effectively analyze problems before substituting numbers into formulas. This skill prepares readers to encounter real life

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problems that do not always fit into standard formulas.

The book begins with the analysis of particle dynamics, before considering the motion of rigid-bodies. The book discusses in detail the three fundamental methods of problem solution: f

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Strength of
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This book is now adapted into SI Units for the convenience of students. The third edition was completely rewritten and expanded. The

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previous editions
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endeavoured to show
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how a few basic
concepts may be
combined and applied
to a wide variety of
practical situations
that are encountered
by engineers. Another
purpose was to help
the student develop
the logical, orderly
proceses of thinking

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that characterize an engineer. Both of these objects have been emphasised to an even greater extent in this revised edition.

Salient features: " Converted into SI Units " Noteworthy changes and additions in Statics, include a unified and coordinated treatment

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1-12 (1943)*

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Mechanics: Statics

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are presented in C programming language at the end of each chapter. The book is primarily suitable for a one-semester course for B.E./B.Tech students and diploma-level students

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