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Statics is the first

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volume of a three-  
volume textbook on  
Engineering  
Mechanics. The  
authors, using a  
time-honoured  
straightforward and  
flexible approach,  
present the basic  
concepts and  
principles of  
mechanics in the  
clearest and  
simplest form

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possible to  
advanced  
undergraduate  
engineering  
students of various  
disciplines and  
different educational  
backgrounds. An  
important objective  
of this book is to  
develop problem  
solving skills in a  
systematic manner.  
Another aim of this

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volume is to provide  
engineering

students as well as  
practising engineers  
with a solid

foundation to help  
them bridge the gap  
between

undergraduate  
studies on the one  
hand and advanced  
courses on

mechanics and/or  
practical

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engineering problems on the other. The book contains numerous examples, along with their complete solutions. Emphasis is placed upon student participation in problem solving. The contents of the book correspond to the topics normally covered in courses

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on basic  
engineering  
mechanics at  
universities and  
colleges. Now in its  
second English  
edition, this material  
has been in use for  
two decades in  
Germany, and has  
benefited from many  
practical  
improvements and  
the authors'

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teaching experience  
over the years. New

to this edition are  
the extra

supplementary  
examples available  
online as well as the  
TM-tools necessary  
to work with this  
method.

This book, in its  
third edition,  
continues to focus  
on the basics of civil

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engineering and  
engineering  
mechanics to  
provide students  
with a balanced and  
cohesive study of  
the two areas (as  
needed by them in  
the beginning of  
their engineering  
education). A basic  
undergraduate  
textbook for the first-  
year students of all



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branches of  
engineering, this  
book is specifically  
designed to conform  
to the syllabus of  
Visvesvaraya  
Technological  
University (VTU).  
Imparting the basic  
knowledge in  
various facets of  
civil engineering  
and the related  
engineering

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structures and  
infrastructure such  
as buildings, roads,  
highways, dams and  
bridges, the third  
edition covers the  
engineering  
mechanics portion  
in eleven chapters.  
Each chapter  
introduces the  
concepts to the  
reader, stepwise.  
Providing a wealth

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of practice examples, the book emphasizes the importance of building strong analytical skills. Practice problems, at the end of each chapter, give students an opportunity to absorb concepts and hone their problem-solving

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skills. The book comes with a companion CD containing the software developed using MS-Excel, to work out the problems on Forces, Centroid, Friction and Moment of Inertia. The use of this software will enable the students to understand the

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December 2013

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by a wealth of  
detailed illustrations  
and diagrams to  
give students a  
complete

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the subject  
with crisp  
conceptual  
explanations  
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understand  
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and their  
applications,  
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Kinetics of  
Motion of  
Rotation as  
well as Work,**

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the students.  
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**engineering  
students the  
basic concepts  
and principles  
of mechanics  
in as simple a  
form as the  
subject allows.  
A second  
objective of  
this book is to  
guide the**

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**students in  
their efforts to  
solve problems  
in mechanics  
in a systematic  
manner. The  
simple  
approach to  
the theory of  
mechanics  
allows for the  
different**

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**educational  
backgrounds  
of the**

**students.**

**Another aim of  
this book is to  
provide  
engineering  
students as  
well as  
practising  
engineers with**



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**a basis to help  
them bridge  
the gaps  
between  
undergraduate  
studies,  
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courses on  
mechanics and  
practical  
engineering  
problems. The**

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**book contains  
numerous  
examples and  
their  
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placed upon  
student  
participation  
in solving the  
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new edition is**

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**fully revised  
and  
supplemented  
by additional  
examples. The  
contents of the  
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correspond to  
the topics  
normally  
covered in  
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**engineering  
mechanics at  
universities  
and colleges.**

**Volume 1**

**deals with  
Statics and**

**Volume 3**

**treats Particle  
Dynamics and  
Rigid Body**

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**Dynamics.  
Separate  
books with  
exercises and  
well  
elaborated  
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available.**

**"A Textbook of  
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has been**

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**the students of**  
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**represents a**  
**comprehensive**  
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topics of  
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a brief, clear  
and lucid  
manner  
Statics  
(in SI Units) :**

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response of  
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loading – is  
often obscured  
by the complex  
mathematics of  
its  
formulation. By  
building**

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one-dimensional  
to two- and thr  
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formulations,  
this book  
provides an  
accessible  
introduction to  
the  
fundamentals of  
solid and fluid  
mechanics,***

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and strain  
among other key  
topics. This  
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text presents  
several real-  
world case  
studies, such  
as the St.  
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illustrate the  
mathematical**

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between solid  
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mechanics, with  
an emphasis on  
practical  
applications of  
these concepts  
to mechanical,  
civil, and  
electrical  
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And Important  
Points Are  
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**So That The**  
**Correct Method**  
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**Has Been Taken**  
**To See That**  
**Students Learn**  
**The Methods**  
**Which Help Them**  
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ities. All These  
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***In the last  
decade, the  
number of  
complex  
problems facing  
engineers has  
increased, and  
the technical  
knowledge***

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***required to  
address and  
mitigate them  
continues to  
evolve rapidly.  
These problems  
include not  
only the design  
of engineering  
systems with  
numerous  
components and  
subsystems, but***

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*also the  
design,  
redesign, and  
interaction of  
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practical, realistic  
situations encountered  
in professional  
practice, and having  
varying levels of  
difficulty. Also  
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*difficult concepts. The text and*

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*understanding the subject. The difficulties usually faced by new engineering students have been taken care of while preparing the book. A large number of numerical problems have been selected from university and competitive examination papers*

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*and question banks,  
properly graded,  
solved and arranged  
in various chapters.*

*The present book has  
been divided in five  
parts: \* Two-*

*Dimensional Force  
System \* Beams and  
Trusses \* Moment of  
Inertia \* Dynamics of  
Rigid Body \* Stress  
and Strain Analysis*



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*The highlights of the book are. \**

*Comparison tables and illustrative drawings \* Exhaustive question bank on theory problems at the end of every chapter \**

*A large number of solved numerical examples \* SI units used throughout*

*A Textbook Of*  
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In Such A Way That*

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students the basic  
concepts and

principles of  
mechanics in as  
simple a form as the  
subject allows. A  
second objective of  
this book is to guide  
the students in their  
efforts to solve  
problems in  
mechanics in a  
systematic manner.

The simple approach

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to the theory of  
mechanics allows for  
the different  
educational  
backgrounds of the  
students. Another aim  
of this book is to  
provide engineering  
students as well as  
practising engineers  
with a basis to help  
them bridge the gaps  
between  
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studies, advanced courses on mechanics and practical engineering problems. The book contains numerous examples and their solutions. Emphasis is placed upon student participation in solving the problems. The contents of the book correspond to the topics normally



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covered in courses on basic engineering mechanics at universities and colleges. Volume 1 deals with Statics; Volume 2 contains Mechanics of Materials.

This is the more practical approach to engineering mechanics that deals mainly with two-

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dimensional  
problems, since these  
comprise the great  
majority of  
engineering  
situations and are the  
necessary foundation  
for good design  
practice. The format  
developed for this  
textbook, moreover,  
has been devised to  
benefit from  
contemporary ideas

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of problem solving as an educational tool. In both areas dealing with statics and dynamics, theory is held apart from applications, so that practical engineering problems, which make use of basic theories in various combinations, can be used to reinforce theory and

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demonstrate the workings of static and dynamic engineering situations. In essence a traditional approach, this book makes use of two-dimensional engineering drawings rather than pictorial representations. Word problems are included in the latter chapters to encourage the student's ability to use

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verbal and graphic skills interchangeably. SI units are employed throughout the text. This concise and economical presentation of engineering mechanics has been classroom tested and should prove to be a lively and challenging basic textbook for two

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s: Statics and  
Dynamics is equally  
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in the second or  
thirdyear of four-year  
engineering  
technology programs.  
This book contains  
the most important

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formulas and more than 140 completely solved problems from Mechanics of Materials and Hydrostatics. It provides engineering students material to improve their skills and helps to gain experience in solving engineering problems. Particular emphasis is placed on finding the

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solution path and  
formulating the basic  
equations. Topics  
include: - Stress -  
Strain - Hooke's Law -  
Tension and  
Compression in Bars -  
Bending of Beams -  
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Methods - Buckling of  
Bars - Hydrostatics  
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Students Develop  
The Capability To  
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Problem And Find  
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Systematically To  
Make The  
Procedure Clear.  
Throughout Si  
Units And  
Standard  
Notations Are

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mechanics is the  
branch of  
engineering that

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applies the laws of  
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design, and is at  
the core of every  
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book offers a  
comprehensive  
discussion of the  
fundamental  
theories and  
principles of

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engineering  
mechanics. It  
begins by  
explaining the laws  
and idealization of  
mechanics, and  
then establishes  
the equation of  
equilibrium for a  
rigid body and free  
body diagram  
(FBD), along with

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their applications.  
Chapters on  
method of virtual  
work and  
mechanical  
vibration discuss in  
detail important  
topics such as  
principle of virtual  
work, potential  
energy and  
equilibrium and

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free vibration. The book also introduces the elastic spring method for finding deflection in beams and uses a simple integration method to calculate centroid and moment of inertia. This



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volume will serve  
as a useful  
textbook for  
undergraduates  
and engineering  
students studying  
engineering  
mechanics.

This book is tailor-  
made as per the  
syllabus of  
Engineering

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Mechanics offered in the first year of undergraduate students of Engineering. The book covers both Statics and Dynamics, and provides the students with a clear and thorough presentation of the

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theory as well as  
the applications.

The diagrams and  
problems in the  
book familiarize  
students with  
actual situations  
encountered in  
engineering.

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way. The current  
book presents  
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both in text and  
by means of an  
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same approach is used in the many examples, drawings and problems. Both formal and intuitive (engineering) arguments are used in parallel to derive the principles used, for instance in bending moment

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*diagrams and shear force diagrams. A very important aspect of this book is the straightforward and consistent sign convention, based on the stress definitions of continuum mechanics. The*

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*continuum  
mechanics to  
showcase the  
connections  
between  
engineering  
structure and  
design and  
between solids  
and fluids and  
helps readers  
learn how to  
predict the  
effects of*

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*forces,  
stresses, and  
strains. T*

*The aim of this  
book is to  
provide students  
of engineering  
mechanics with  
detailed  
solutions of a  
number of  
selected  
engineering  
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problems. It was written on the demand of the students in our courses who try to understand given solutions from their books or to solve problems from scratch. Often solutions in text books cannot be

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*reproduced due to minor mistakes or lack of mathematical knowledge. Here we walk the reader step by step through the solutions given in all details. We thereby are trying to address students with different*

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***Engineering mechanics is the branch of the physical science which describes the response of bodies or systems of bodies to external behaviour of a body, in either a beginning state of rest or of***



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***motion, subjected to the action of forces.***

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on Sir Issac*

*Newton's laws of  
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practical sciences,  
engineering  
mechanics is useful  
in formulating new  
ideas and theories,  
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application of  
applied mechanics  
to solve problems  
involving common  
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elements. The goal  
of this engineering  
mechanics course is  
to expose students  
to problems in  
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***applied to plausibly  
real-world  
scenarios. Problems  
of particular types  
are explored in  
detail in the hopes  
that students will  
gain an inductive  
understanding of  
the underlying  
principles at work;  
students should  
then be able to  
recognize problems***

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***of this sort in real-world situations and respond***

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