Solution Manual To Applied Engineering Mechanics By Jensen

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Solutions Manual to accompany Parnes Solid Mechanics in Engineering Raymond Parnes 2011-10-17 This book provides a systematic, modern introduction to solid mechanics that is carefully motivated by realistic Engineering applications. Based on 25

years of teaching experience, Raymond Parnes uses a wealth of examples and a rich set of problems to build the reader's understanding of the scientific principles, without requiring 'higher mathematics'. Highlights of the book include The use of modern SI units throughout A thorough presentation of the subject stressing basic unifying concepts Comprehensive coverage, including topics such as the behaviour of materials on a phenomenological level Over 600 problems, many of which are designed for solving with MATLAB, MAPLE or MATHEMATICA. Solid Mechanics in Engineering is designed for 2-semester courses in Solid Mechanics or Strength of Materials taken by students in Mechanical, Civil or Aeronautical Engineering and Materials Science and may also be used for a first-year graduate program.

Applied Mechanics for Engineering Technology Keith M. Walker 1997 This edition delivers theory with a few clear statements as each subject is developed through practical examples organized in a systematic format. It aims to provide a more comprehensive maths review and includes algebra and geometry to accommodate students with varied backgrounds in math. Applied problems at the end of each chapter have been increased by 15 percent and are now grouped and referenced to the corresponding sections within each chapter to provide students with easier reference. An expanded section on Free-body diagrams emphasizes what needs to be done and why it needs to be done in order to assist students in developing and mastering this

important problem solving tool.
Elasticity Martin H. Sadd 2020-03-26
Elasticity: Theory, Applications, and
Numerics, Fourth Edition, continues
its market-leading tradition of
concisely presenting and developing
the linear theory of elasticity,
moving from solution methodologies,
formulations, and strategies into
applications of contemporary
interest, such as fracture mechanics,
anisotropic and composite materials,
micromechanics, nonhomogeneous graded
materials, and computational methods.
Developed for a one- or two-semester
graduate elasticity course, this new
edition has been revised with new
worked examples and exercises, and
new or expanded coverage of areas
such as treatment of large
deformations, fracture mechanics,
strain gradient and surface
elasticity theory, and tensor
analysis. Using MATLAB software,
numerical activities in the text are
integrated with analytical problem
solutions. Online ancillary support
materials for instructors include a
solutions manual, image bank, and a
set of PowerPoint lecture slides.
Provides a thorough yet concise
introduction to linear elasticity
theory and applications Offers
detailed solutions to problems of
nonhomogeneous/graded materials
Features a comparison of elasticity
solutions with elementary theory,
experimental data, and numerical
simulations Includes online solutions
manual and downloadable MATLAB code
*Solutions Manual to Accompany Applied
Engineering Mechanics, First Canadian
S.I. Metric Edition* Jensen, Alfred
1981

Canadiana 1982
Engineering Mechanics Gary L. Gray
2011-04 Plesha, Gray, and Costanzo's
"Engineering Mechanics: Dynamics"
presents the fundamental concepts
clearly, in a modern context, using
applications and pedagogical devices
that connect with today's students.
*Advanced Mechanics of Materials and
Applied Elasticity* Anthony E.
Armenàkas 2016-04-19 This book
presents both differential equation
and integral formulations of boundary
value problems for computing the
stress and displacement fields of
solid bodies at two levels of
approximation - isotropic linear
theory of elasticity as well as
theories of mechanics of materials.
Moreover, the book applies these
formulations to practical solutions
in detailed, easy-to-follow examples.

Advanced Mechanics of Materials and
Applied Elasticity presents modern
and classical methods of analysis in
current notation and in the context
of current practices. The author's
well-balanced choice of topics, clear
and direct presentation, and emphasis
on the integration of sophisticated
mathematics with practical examples
offer students in civil, mechanical,
and aerospace engineering an
unparalleled guide and reference for
courses in advanced mechanics of
materials, stress analysis,
elasticity, and energy methods in
structural analysis.
**Engineering Analysis in Applied
Mechanics and Solutions Manual** John
W. Brewer 2001-01-01 This text
surveys the mathematics foundation of
applied mechanics. Treatments of
simultaneous algebraic & differential

equations, matrix algebra, the theory of optimization & the calculus of variations are included in the sections on engineering mathematics. The eigenvalue problem, especially, is treated in considerable depth, as is the second-order, necessary & sufficient conditions for optimization based on the Hessian matrix. A thorough introduction to Lagrange multipliers along with equality & inequality constraints is another feature. Considerable attention is paid to engineering applications in theoretical thermodynamics, strength of materials & Lagrangian-Hamiltonian dynamics. Journal of Applied Mechanics 1980 Applied Mechanics for Engineering Technology. Solutions Manual Keith M. Walker 1991 Applied Mechanics for Engineering Technology Keith M. Walker 2013-10-03 For courses in Applied Mechanics, Statics/Dynamics, or Introduction to Stress Analysis. Featuring a non-calculus approach, this introduction to applied mechanics text combines a straightforward, readable foundation in underlying physics principles with a consistent method of problem solving. It presents the physics principles in small elementary steps; keeps the mathematics at a reasonable level; provides an abundance of worked examples; and features problems that are as practical as possible without becoming too involved with many extraneous details. This edition features 7% more problems, an enhanced layout and design and a logical, disciplined approach that gives students a sound background in core statics and

dynamics competencies. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed. *Introduction to Finite Element Analysis and Design* Nam H. Kim 2018-05-24 Introduces the basic concepts of FEM in an easy-to-use format so that students and

professionals can use the method efficiently and interpret results properly Finite element method (FEM) is a powerful tool for solving engineering problems both in solid structural mechanics and fluid mechanics. This book presents all of the theoretical aspects of FEM that students of engineering will need. It eliminates overlong math equations in favour of basic concepts, and reviews of the mathematics and mechanics of materials in order to illustrate the concepts of FEM. It introduces these concepts by including examples using six different commercial programs online. The all-new, second edition of Introduction to Finite Element Analysis and Design provides many more exercise problems than the first edition. It includes a significant amount of material in modelling

issues by using several practical examples from engineering applications. The book features new coverage of buckling of beams and frames and extends heat transfer analyses from 1D (in the previous edition) to 2D. It also covers 3D solid element and its application, as well as 2D. Additionally, readers will find an increase in coverage of finite element analysis of dynamic problems. There is also a companion website with examples that are concurrent with the most recent version of the commercial programs. Offers elaborate explanations of basic finite element procedures Delivers clear explanations of the capabilities and limitations of finite element analysis Includes application examples and tutorials for commercial finite element software, such as MATLAB, ANSYS, ABAQUS and NASTRAN Provides numerous examples and exercise problems Comes with a complete solution manual and results of several engineering design projects Introduction to Finite Element Analysis and Design, 2nd Edition is an excellent text for junior and senior level undergraduate students and beginning graduate students in mechanical, civil, aerospace, biomedical engineering, industrial engineering and engineering mechanics.

Statics and Mechanics of Materials William F. Riley 2001-10-30 The second edition of Statics and Mechanics of Materials: An Integrated Approach continues to present students with an emphasis on the fundamental principles, with numerous applications to demonstrate and

develop logical, orderly methods of procedure. Furthermore, the authors have taken measure to ensure clarity of the material for the student. Instead of deriving numerous formulas for all types of problems, the authors stress the use of free-body diagrams and the equations of equilibrium, together with the geometry of the deformed body and the observed relations between stress and strain, for the analysis of the force system action of a body.
Engineering Mechanics: Statics Andrew Pytel 2016-01-01 ENGINEERING MECHANICS: STATICS, 4E, written by authors Andrew Pytel and Jaan Kiusalaas, provides readers with a solid understanding of statics without the overload of extraneous detail. The authors use their extensive teaching experience and first-hand knowledge to deliver a presentation that's ideally suited to the skills of today's learners. This edition clearly introduces critical concepts using features that connect real problems and examples with the fundamentals of engineering mechanics. Readers learn how to effectively analyze problems before substituting numbers into formulas -- a skill that will benefit them tremendously as they encounter real problems that do not always fit into standard formulas. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.
Solution Manual John Tinsley Oden 1978
Solution Manual for Mechanics and Control of Robots Krishna C. Gupta

1997-04-24 Intended as an introduction to robot mechanics for students of mechanical, industrial, electrical, and bio-mechanical engineering, this graduate text presents a wide range of approaches and topics. It avoids formalism and proofs but nonetheless discusses advanced concepts and contemporary applications. It will thus also be of interest to practicing engineers. The book begins with kinematics, emphasizing an approach based on rigid-body displacements instead of coordinate transformations; it then turns to inverse kinematic analysis, presenting the widely used Pieper-Roth and zero-reference-position methods. This is followed by a discussion of workplace characterization and determination. One focus of the discussion is the motion made possible by sperical and other novel wrist designs. The text concludes with a brief discussion of dynamics and control. An extensive bibliography provides access to the current literature.

Soil Mechanics William Powrie 1997-09-18

Solution Manual to Accompany Mechanics of Materials, 2nd Edition Madhukar Vable 2017-08-23 This solution manual accompanies my textbook on Mechanics of Materials, 2nd edition that can be printed or downloaded for free from my website madhuvable.org. Along with the free textbook there are also free slides, sample syllabus, sample exams, static and other mechanics course reviews, computerized tests, and gradebooks for instructors to record results of the computerized tests. This solution

manual is designed for the instructors and may prove challenging to students. The intent was to help reduce the laborious algebra and to provide instructors with a way of checking solutions. It has been made available to students because it is next to impossible to maintain security of the manual even by large publishing companies. There are websites dedicated to obtaining a solution manuals for any course for a price. The students can use the manual as additional examples, a practice followed in many first year courses. Below is a brief description of the unique features of the textbook. There has been, and continues to be, a tremendous growth in mechanics, material science, and in new applications of mechanics of materials. Techniques such as the finite-element method and Moire interferometry were research topics in mechanics, but today these techniques are used routinely in engineering design and analysis. Wood and metal were the preferred materials in engineering design, but today machine components and structures may be made of plastics, ceramics, polymer composites, and metal-matrix composites. Mechanics of materials was primarily used for structural analysis in aerospace, civil, and mechanical engineering, but today mechanics of materials is used in electronic packaging, medical implants, the explanation of geological movements, and the manufacturing of wood products to meet specific strength requirements. Though the principles in mechanics of materials have not changed in the

past hundred years, the presentation of these principles must evolve to provide the students with a foundation that will permit them to readily incorporate the growing body of knowledge as an extension of the fundamental principles and not as something added on, and vaguely connected to what they already know. This has been my primary motivation for writing the textbook. Learning the course content is not an end in itself, but a part of an educational process. Some of the serendipitous development of theories in mechanics of materials, the mistakes made and the controversies that arose from these mistakes, are all part of the human drama that has many educational values, including learning from others' mistakes, the struggle in understanding difficult concepts, and

the fruits of perseverance. The connection of ideas and concepts discussed in a chapter to advanced modern techniques also has educational value, including continuity and integration of subject material, a starting reference point in a literature search, an alternative perspective, and an application of the subject material. Triumphs and tragedies in engineering that arose from proper or improper applications of mechanics of materials concepts have emotive impact that helps in learning and retention of concepts according to neuroscience and education research. Incorporating educational values from history, advanced topics, and mechanics of materials in action or inaction, without distracting the student from the central ideas and

concepts is an important complementary objective of the textbook.

Engineering Mechanics: Dynamics Andrew Pytel 2016-01-01 Readers gain a solid understanding of Newtonian dynamics and its application to real-world problems with Pytel/Kiusalaas' ENGINEERING MECHANICS: DYNAMICS, 4E. This edition clearly introduces critical concepts using learning features 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 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: force-mass-acceleration, work-energy, and impulse-momentum, including the use of numerical methods. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Applied Mechanics Reviews 1974
Fundamentals of Fluid Mechanics Bruce R. Munson 2005-03-11 Master fluid mechanics with the #1 text in the field! Effective pedagogy, everyday examples, an outstanding collection of practical problems--these are just a few reasons why Munson, Young, and Okiishi's Fundamentals of Fluid Mechanics is the best-selling fluid mechanics text on the market. In each new edition, the authors have refined

their primary goal of helping you develop the skills and confidence you need to master the art of solving fluid mechanics problems. This new Fifth Edition includes many new problems, revised and updated examples, new Fluids in the News case study examples, new introductory material about computational fluid dynamics (CFD), and the availability of FlowLab for solving simple CFD problems. Access special resources online New copies of this text include access to resources on the book's website, including: * 80 short Fluids Mechanics Phenomena videos, which illustrate various aspects of real-world fluid mechanics. * Review Problems for additional practice, with answers so you can check your work. * 30 extended laboratory problems that involve actual experimental data for simple experiments. The data for these problems is provided in Excel format. * Computational Fluid Dynamics problems to be solved with FlowLab software. Student Solution Manual and Study Guide A Student Solution Manual and Study Guide is available for purchase, including essential points of the text, "Cautions" to alert you to common mistakes, 109 additional example problems with solutions, and complete solutions for the Review Problems.

Books in Print 1995

Nonlinear Finite Elements for Continua and Structures Ted Belytschko 2014-01-07 This updated and expanded edition of the bestselling textbook provides a comprehensive introduction to the methods and theory of nonlinear

finite element analysis. New material provides a concise introduction to some of the cutting-edge methods that have evolved in recent years in the field of nonlinear finite element modeling, and includes the eXtended finite element method (XFEM), multiresolution continuum theory for multiscale microstructures, and dislocation-density-based crystalline plasticity. Nonlinear Finite Elements for Continua and Structures, Second Edition focuses on the formulation and solution of discrete equations for various classes of problems that are of principal interest in applications to solid and structural mechanics. Topics covered include the discretization by finite elements of continua in one dimension and in multi-dimensions; the formulation of constitutive equations for nonlinear materials and large deformations; procedures for the solution of the discrete equations, including considerations of both numerical and multiscale physical instabilities; and the treatment of structural and contact-impact problems. Key features: Presents a detailed and rigorous treatment of nonlinear solid mechanics and how it can be implemented in finite element analysis Covers many of the material laws used in today's software and research Introduces advanced topics in nonlinear finite element modelling of continua Introduction of multiresolution continuum theory and XFEM Accompanied by a website hosting a solution manual and MATLAB® and FORTRAN code Nonlinear Finite Elements for Continua and Structures, Second Edition is a must have

textbook for graduate students in mechanical engineering, civil engineering, applied mathematics, engineering mechanics, and materials science, and is also an excellent source of information for researchers and practitioners in industry.
Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office 1961 Includes Part 1, Number 1 & 2: Books and Pamphlets, Including Serials and Contributions to Periodicals (January - December)
Elasticity in Engineering Mechanics Arthur P. Boresi 2000 "Arthur Boresi and Ken Chong's Elasticity in Engineering Mechanics has been prized by many aspiring and practicing engineers as an easy-to-navigate guide to an area of engineering science that is fundamental to aeronautical, civil, and mechanical engineering, and to other branches of engineering. With its focus not only on elasticity theory but also on concrete applications in real engineering situations, this work is a core text in a spectrum of courses at both the undergraduate and graduate levels, and a superior reference for engineering professionals."--BOOK JACKET.
Engineering Mechanics: Statics, SI Edition Andrew Pytel 2016-01-01 ENGINEERING MECHANICS: STATICS, 4E, written by authors Andrew Pytel and Jaan Kiusalaas, provides readers with a solid understanding of statics without the overload of extraneous detail. The authors use their extensive teaching experience and first-hand knowledge to deliver a presentation that's ideally suited to the skills of today's learners. This

edition clearly introduces critical concepts using features that connect real problems and examples with the fundamentals of engineering mechanics. Readers learn how to effectively analyze problems before substituting numbers into formulas -- a skill that will benefit them tremendously as they encounter real problems that do not always fit into standard formulas. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Engineering Mechanics James L. Meriam 2013 The 7th edition of this classic text continues to provide the same high quality material seen in previous editions. The text is extensively rewritten with updated prose for content clarity, superb new problems in new application areas, outstanding instruction on drawing free body diagrams, and new electronic supplements to assist readers. Furthermore, this edition offers more Web-based problem solving to practice solving problems, with immediate feedback; computational mechanics booklets offer flexibility in introducing Matlab, MathCAD, and/or Maple into your mechanics classroom; electronic figures from the text to enhance lectures by pulling material from the text into Powerpoint or other lecture formats; 100+ additional electronic transparencies offer problem statements and fully worked solutions for use in lecture or as outside study tools.

Engineering Analysis for Applied Mechanics Solutions Manual John W.

Brewer 2001-04-01
Engineering Mechanics: Dynamics, SI Edition Andrew Pytel 2016-01-01 Readers gain a solid understanding of Newtonian dynamics and its application to real-world problems with Pytel/Kiusalaas' ENGINEERING MECHANICS: DYNAMICS, 4E. This edition clearly introduces critical concepts using learning features 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 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: force-mass-acceleration, work-energy, and impulse-momentum, including the use of numerical methods. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.
Engineering Mechanics, Statics and Dynamics Bela Imre Sandor 1987
Canadian Books in Print 1992
Engineering Mechanics Benson H. Tongue 2020-10-06 Dynamics can be a major frustration for those students who don't relate to the logic behind the material -- and this includes many of them! Engineering Mechanics: Dynamics meets their needs by combining rigor with user friendliness. The presentation in this text is very personalized,

giving students the sense that they are having a one-on-one discussion with the authors. This minimizes the air of mystery that a more austere presentation can engender, and aids immensely in the students' ability to retain and apply the material. The authors do not skimp on rigor but at the same time work tirelessly to make the material accessible and, as far as possible, fun to learn.

Applied Gas Dynamics Ethirajan Rathakrishnan 2019-02-21 A revised edition to applied gas dynamics with exclusive coverage on jets and additional sets of problems and examples The revised and updated second edition of Applied Gas Dynamics offers an authoritative guide to the science of gas dynamics. Written by a noted expert on the topic, the text contains a comprehensive review of the topic; from a definition of the subject, to the three essential processes of this science: the isentropic process, shock and expansion process, and Fanno and Rayleigh flows. In this revised edition, there are additional worked examples that highlight many concepts, including moving shocks, and a section on critical Mach number is included that helps to illuminate the concept. The second edition also contains new exercise problems with the answers added. In addition, the information on ram jets is expanded with helpful worked examples. It explores the entire spectrum of the ram jet theory and includes a set of exercise problems to aid in the understanding of the theory presented. This important text: Includes a wealth of new solved

examples that describe the features involved in the design of gas dynamic devices Contains a chapter on jets; this is the first textbook material available on high-speed jets Offers comprehensive and simultaneous coverage of both the theory and application Includes additional information designed to help with an understanding of the material covered Written for graduate students and advanced undergraduates in aerospace engineering and mechanical engineering, Applied Gas Dynamics, Second Edition expands on the original edition to include not only the basic information on the science of gas dynamics but also contains information on high-speed jets. **Mechanics of Functionally Graded Material Structures** Isaac Elishakoff 2015-10-29 Mechanics of Functionally Graded Material Structures is an authoritative and fresh look at various functionally graded materials, customizing them with various structures. The book is devoted to tailoring material properties to the needed structural performance. The authors pair materials with the appropriate structures based upon their purpose and use. Material grading of structures depending upon thickness, axial and polar directions are discussed. Three dimensional analysis of rectangular plates made of functional graded materials and vibrational tailoring of inhomogeneous beams and circular plates are both covered in great detail. The authors derive novel closed form solutions that can serve as benchmarks that numerical

solutions can be compared to. These are published for the first time in the literature. This is a unique book that gives the first exposition of the effects of various grading mechanisms on the structural behavior as well as taking into account vibrations and buckling.

Contents:Three-Dimensional Analysis of Rectangular Plates Made of Functionally Graded Materials:Elastic PlatesIntroduction to Functionally Graded MaterialsDynamic Analysis of Plates Made of Functionally Graded MaterialsStatic Analysis of Plates Made of Functionally Graded MaterialsVibration Tailoring of Inhomogenous Beams and Circular Plates:Beams Made of Functionally Graded MaterialVibration Tailoring of Inhomogeneous Elastically Restrained Vibrating BeamsSome Intriguing Results Pertaining to Functionally Graded ColumnsDesign of Heterogeneous Polar–Orthotropic Clamped Circular Plates with Specified Fundamental Natural FrequencyVibration Tailoring of Simply-Supported Polar Orthotropic Inhomogeneous Circular PlatesVibration Tailoring of Clamped–Clamped Polar Orthotropic Inhomogeneous Circular PlatesVibration Tailoring of a Polar Orthotropic Circular Plate with Translational SpringConclusionAppendices:A Novel Formulation Leading to Closed-Form Solutions for Buckling of Circular PlatesInverse Vibration Problem for Inhomogeneous Circular Plate with Translational SpringApparently First Closed-Form Solutions for Non-Symmetric Vibrations of Inhomogeneous Circular PlatesClosed-Form Solution

for Axisymmetric Vibration of Inhomogeneous Simply-Supported Circular Plates Readership: Graduate students, academics, professional and researchers interested in the effects of various grading mechanisms on structural behavior as well as vibration and buckling.Key Features:This book deals with material grading of structures in (a) thickness, (b) axial and (c) polar directionsIt derives novel closed-form solutions that can serve as benchmarks with which numerical solutions can be compared withIt contains extensive bibliography in this fascinating topicKeywords:Materials;Structures;Vibrations;Three-Dimensional Analysis *Solutions Manual to Accompany Applied Mechanics for Engineering Technology* Keith M. Walker 2000

Solution Manual for Mechanics and Control of Robots Krishna C. Gupta 2012-12-06 Intended as an introduction to robot mechanics for students of mechanical, industrial, electrical, and bio-mechanical engineering, this graduate text presents a wide range of approaches and topics. It avoids formalism and proofs but nonetheless discusses advanced concepts and contemporary applications. It will thus also be of interest to practicing engineers. The book begins with kinematics, emphasizing an approach based on rigid-body displacements instead of coordinate transformations; it then turns to inverse kinematic analysis, presenting the widely used Pieper-Roth and zero-reference-position methods. This is followed by a discussion of workplace

characterization and determination. One focus of the discussion is the motion made possible by sperical and other novel wrist designs. The text concludes with a brief discussion of dynamics and control. An extensive bibliography provides access to the current literature.

Engineering Mechanics: Statics, SI Edition Andrew Pytel 2016-01-01 ENGINEERING MECHANICS: STATICS, 4E, written by authors Andrew Pytel and Jaan Kiusalaas, provides readers with a solid understanding of statics without the overload of extraneous detail. The authors use their extensive teaching experience and first-hand knowledge to deliver a presentation that's ideally suited to the skills of today's learners. This edition clearly introduces critical concepts using features that connect real problems and examples with the fundamentals of engineering mechanics. Readers learn how to effectively analyze problems before substituting numbers into formulas -- a skill that will benefit them tremendously as they encounter real problems that do not always fit into standard formulas. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Scientific and Technical Books and Serials in Print 1989
Engineering Education 1980-10
Dynamics – Formulas and Problems Dietmar Gross 2016-10-05 This book contains the most important formulas and more than 190 completely solved problems from Kinetics and Hydrodynamics. 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 solution path and formulating the basic equations. Topics include: - Kinematics of a Point - Kinetics of a Point Mass - Dynamics of a System of Point Masses - Kinematics of Rigid Bodies - Kinetics of Rigid Bodies - Impact - Vibrations - Non-Inertial Reference Frames - Hydrodynamics