

Engineering Mechanics For Diploma

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Engineering Practical Book Vol-II
Mechanical Engineering Questions with Answers 3000+ MCQs
Polytechnic Applied Mechanics
Engineering Mechanics 3
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Structural Engineering, Mechanics and Computation
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A Textbook Of Applied Mechanics

Engineering Mechanics: Combined Statics & Dynamics, Twelfth Edition is ideal for civil and mechanical engineering professionals. In his substantial revision of Engineering Mechanics, R.C. Hibbeler empowers students to succeed in the whole learning experience. Hibbeler achieves this by calling on his everyday classroom experience and his knowledge of how students learn inside and outside of lecture. In addition to over 50% new homework problems, the twelfth edition introduces the new elements of Conceptual Problems, Fundamental Problems and MasteringEngineering, the most technologically advanced online tutorial and homework system.

Engineering Mechanics 3

Dynamics is the third volume of a three-volume textbook on Engineering Mechanics. It was written with the intention of presenting to 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 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 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 undergraduate 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 covered in courses on basic engineering mechanics at universities and colleges. Volume 1 deals with Statics; Volume 2 contains Mechanics of Materials.

Geometric Mechanics and Symmetry

This second edition of the textbook presents a systematic introduction to the structural mechanics of composite components. The book focusses on modeling and calculation of sandwiches and laminated composites i.e. anisotropic material. The new edition includes an additional chapter covering the latest advances in both research and applications, which are highly relevant for readers. The textbook is written for use not only in engineering curricula of aerospace, civil and mechanical engineering, but also for materials science and applied mechanics. Furthermore, it addresses practicing engineers and researchers. No prior knowledge of composite materials and structures is required for the understanding of its content. The book is close to classical courses of "Strength of Materials" and "Theory of Beams, Plates and Shells" but it extends the classic content on two topics: the linear elastic material behavior of isotropic and non-isotropic structural

elements, and inhomogeneous material properties in the thickness direction. The Finite Element Analysis of laminate and sandwich structures is briefly presented. Many solved examples illustrate the application of the techniques learned.

Engineering Mechanics Devoted to Mechanical Civil, Mining and Electrical Engineering

A systematic presentation of theory, procedures, illustrative examples, and applications, Mechanics of Materials provides the basis for understanding structural mechanics in engineering systems such as buildings, bridges, vehicles, and machines. The book incorporates the fundamentals of the subject into analytical methods, modeling approaches, numerical methods, experimental procedures, numerical evaluation procedures, and design techniques. It introduces the fundamentals, and then moves on to more advanced concepts and applications. It discusses analytical methods using simple mathematics, examples and experimental techniques, and it includes a large number of worked examples and case studies that illustrate practical and real-world usage. In the beginning of each chapter, states and summarizes the objectives and approaches, and lists the main topics covered in the chapter Presents the key issues and formulas in a "Summary Sheet" at the end of each chapter Provides as appendices at the end of the book, useful reference data and advanced material that cannot be conveniently

integrated into the main chapters Mechanics of Materials is a result of the author's experience in teaching an undergraduate course in mechanics of materials consisting of mechanical, manufacturing, materials, mining and mineral engineering students and in teaching other courses in statics, dynamics, modeling, vibration, instrumentation, testing, design, and control. This book is suitable for anyone with a basic engineering background. The practical considerations, design issues, and engineering techniques, and the snapshot-style presentation of advanced theory and concepts, makes this a useful reference for practicing professionals as well.

Mechanical Sciences-1(Wbut)

Platina Bike Care at Home

For students of civil engineering, the basic course on Strength of Materials is not enough to start their engineering career. They need an advanced course like Mechanics of Structures to understand strength and stability of several components of civil engineering structures. Hence, Mechanics of Structure is taught to all polytechnic students of civil engineering. It is written in SI units. Notations used are as per Indian standard codes. Apart from West Bengal

Polytechnic students of civil engineering branch, it is hoped that the students of other states with similar syllabus may also find this book useful. KEY FEATURES • 100 per cent coverage of new syllabus • Emphasis on practice of numericals for guaranteed success in exams • Lucidity and simplicity maintained throughout • Nationally acclaimed author of over 40 books

A Text-book of Applied Mechanics for Polytechnics

Now in its second English edition, Mechanics of Materials is the second volume of a three-volume textbook series on Engineering Mechanics. It was written with the intention of presenting to 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 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 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 undergraduate 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 new edition is fully revised and supplemented by additional examples. The contents of the book correspond to the topics normally covered in courses on basic engineering mechanics at universities and colleges.

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Volume 1 deals with Statics and Volume 3 treats Particle Dynamics and Rigid Body Dynamics. Separate books with exercises and well elaborated solutions are available.

Mechanics

Reeds Vol 2: Applied Mechanics for Marine Engineers

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

New Materials in Civil Engineering

Statics is the first volume of a three-volume textbook on Engineering Mechanics.

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The authors, using a time-honoured straightforward and flexible approach, present the basic concepts and principles of mechanics in the clearest and simplest form 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 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 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 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' 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.

The Elements of Mechanics

Introduces machine learning and its algorithmic paradigms, explaining the principles behind automated learning approaches and the considerations underlying their usage.

Statics - Formulas and Problems

Engineering Mechanics

Practicing engineers designing civil engineering structures, and advanced students of civil engineering, require foundational knowledge and advanced analytical and empirical tools. *Mechanics in Civil Engineering Structures* presents the material needed by practicing engineers engaged in the design of civil engineering structures, and students of civil engineering. The book covers the fundamental principles of mechanics needed to understand the responses of structures to different types of load and provides the analytical and empirical tools for design. The title presents the mechanics of relevant structural elements—including columns, beams, frames, plates and shells—and the use of mechanical models for assessing design code application. Eleven chapters cover topics including stresses and strains; elastic beams and columns; inelastic and composite beams and columns; temperature and other kinematic loads; energy principles; stability and second-order effects for beams and columns; basics of vibration; indeterminate elastic-plastic structures; plates and shells. This book is an invaluable guide for civil engineers needing foundational background and advanced analytical and empirical tools for structural design. Includes 110 fully worked-out examples of

important problems and 130 practice problems with an interaction solution manual (<https://nam03.safelinks.protection.outlook.com/?url=http%3A%2F%2Fhsz121.hsz.bme.hu%2Fsolutionmanual%2F&data=02%7C01%7Ci.silva%40elsevier.com%7C754364e8a2e24e59857508d817ef644c%7C9274ee3f94254109a27f9fb15c10675d%7C0%7C0%7C637285664245473778&sdata=ltjgBUAdE4mjPy4iytkAWxo22C54RqhrCFURvbxby9Y%3D&reserved=0>). Presents the foundational material and advanced theory and method needed by civil engineers for structural design Provides the methodological and analytical tools needed to design civil engineering structures Details the mechanics of salient structural elements including columns, beams, frames, plates and shells Details mechanical models for assessing the applicability of design codes

Mechanics of Materials

Problems and Solutions in Engineering Mechanics

Dynamics is the third volume of a three-volume textbook on Engineering Mechanics. It was written with the intention of presenting to 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 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 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 undergraduate 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 covered in courses on basic engineering mechanics at universities and colleges. Volume 1 deals with Statics; Volume 2 contains Mechanics of Materials.

Applied Mechanic (Engineering Mechanic)

This book has been written for the ME/M.TECH/BE/B.Tech students of All University with latest syllabus for ECE, EEE, CSE, IT, Mechanical, Bio Medical, Bio Tech, BCA, MCA and All B.Sc Department Students. The basic aim of this book is to provide a basic knowledge in Engineering Mechanics. Engineering Mechanics Syllabus students of degree, diploma & AMIE courses and a useful reference for these preparing for competitive examinations. All the concepts are explained in a simple, clear and complete manner to achieve progressive learning. This book is divided into five chapters. Each chapter is well supported with the necessary illustration practical examples.

Engineering Mechanics

New Materials in Civil Engineering provides engineers and scientists with the tools and methods needed to meet the challenge of designing and constructing more resilient and sustainable infrastructures. This book is a valuable guide to the properties, selection criteria, products, applications, lifecycle and recyclability of advanced materials. It presents an A-to-Z approach to all types of materials, highlighting their key performance properties, principal characteristics and applications. Traditional materials covered include concrete, soil, steel, timber, fly ash, geosynthetic, fiber-reinforced concrete, smart materials, carbon fiber and reinforced polymers. In addition, the book covers nanotechnology and biotechnology in the development of new materials. Covers a variety of materials, including fly ash, geosynthetic, fiber-reinforced concrete, smart materials, carbon fiber reinforced polymer and waste materials Provides a “one-stop resource of information for the latest materials and practical applications Includes a variety of different use case studies

Engineering Mechanics

This book contains the most important formulas and more than 160 completely solved problems from Statics. It provides engineering students material to improve

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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: - Equilibrium - Center of Gravity, Center of Mass, Centroids - Support Reactions - Trusses - Beams, Frames, Arches - Cables - Work and Potential Energy - Static and Kinetic Friction - Moments of Inertia

Engineering Mechanics

Geometric Mechanics and Symmetry is a friendly and fast-paced introduction to the geometric approach to classical mechanics, suitable for a one- or two-semester course for beginning graduate students or advanced undergraduates. It fills a gap between traditional classical mechanics texts and advanced modern mathematical treatments of the subject. The modern geometric approach illuminates and unifies many seemingly disparate mechanical problems from several areas of science and engineering. In particular, the book concentrates on the similarities between finite-dimensional rigid body motion and infinite-dimensional systems such as fluid flow. The illustrations and examples, together with a large number of exercises, both solved and unsolved, make the book particularly useful.

Understanding Machine Learning

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The book systematically develops the concepts and principles essential for 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 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 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

Textbook in Applied Mechanics

The book covers the principal topics in applied mechanics for professional trainees studying Merchant Navy Marine Engineering Certificates of Competency (CoC) as well as the core syllabi in applied mechanics for undergraduates studying for BSc, BEng and MEng degrees in marine engineering, naval architecture and other marine technology related programmes. The revised version takes into account the need of these students, recognising recent changes to the Merchant Navy syllabus and current pathways to a sea-going engineering career, including National diplomas, Higher National Diploma and degree courses. Basic principles are dealt

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with, beginning at a fairly elemental stage, with this new edition applying the underlying principles to a shipping environment. Each chapter has fully worked examples interwoven into the text, with test examples set at the end of each chapter. Other revisions include examples reflecting modern machines and practice, current legislation and current syllabi.

Mechanics of Civil Engineering Structures

Problem Solving Is A Vital Requirement For Any Aspiring Engineer. This Book Aims To Develop This Ability In Students By Explaining The Basic Principles Of Mechanics Through A Series Of Graded Problems And Their Solutions. Each Chapter Begins With A Quick Discussion Of The Basic Concepts And Principles. It Then Provides Several Well Developed Solved Examples Which Illustrate The Various Dimensions Of The Concept Under Discussion. A Set Of Practice Problems Is Also Included To Encourage The Student To Test His Mastery Over The Subject. The Book Would Serve As An Excellent Text For Both Degree And Diploma Students Of All Engineering Disciplines. Amie Candidates Would Also Find It Most Useful.

Engineering Mechanics 1

Platina Bike Care at Home is a simple e-Book for Taking Bikee of Platina Bike. It

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contains Information covering all topics including all about Bike Bikee & Decoration aspect in general and specific to the Platina Bike to make your Bike Stylish & High Performance, maintenance of Engine, Battery, Air-condition A/C, Lighting, Wiper, CNG Gas System, Fuel tank, Wheel Alignment, Wheel Balancing, Brake system, Cooling system, lubrication, Engine oil change, Gear oil change, Power steering, Power Window, Starter, alternator and perform Execute troubleshooting in engine and lots more.

Engineering Mechanics

This Book Of Applied Mechanics Is Intended For Students Of Engineering, Taking A First Course In The Subject Of Engineering Mechanics. The Book Is Written In A Simple Style Laying Great Emphasis On The Basic Concepts And Principles Of Mechanics And Their Applications Which Are Illustrated Through A Large Number Of Examples. Each Chapter Is Preceded By The Learning Outcomes And Concludes With Review Questions And Graded Problems For Practice From Which The Reader Can Judge His Achievement Of Learning Outcomes. The Book Will Be Immensely Useful For Students Beginning A Course Of Study In Engineering Degree Or Diploma For A Better Understanding Of Basic Concepts & Principles Of 'Mechanics' And For Teachers To Plan Their Instruction For The Subject In A Systematic Way.

Mechanical Engineering

The word "elements" in the title of this book does not convey the implication that its contents are "elementary" in the sense of "easy": it mainly means that no prerequisites are required, with the exception of some basic background in classical physics and calculus. It also signifies "devoted to the foundations". In fact, the arguments chosen are all very classical, and the formal or technical developments of this century are absent, as well as a detailed treatment of such problems as the theory of the planetary motions and other very concrete mechanical problems. This second meaning, however, is the result of the necessity of finishing this work in a reasonable amount of time rather than an a priori choice. Therefore a detailed review of the "few" results of ergodic theory, of the "many" results of statistical mechanics, of the classical theory of fields (elasticity and waves), and of quantum mechanics are also totally absent; they could constitute the subject of two additional volumes on mechanics. This book grew out of several courses on *meccanica razionale*, i.e., essentially, theoretical mechanics, which I gave at the University of Rome during the years 1975-1978.

Mechanics of Structure (For Polytechnic Students)

The present title Engineering Mechanics has been written for the undergraduate

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and those preparing for the higher national certificate and professional institution examinations, as well as for those following a degree, or diploma courses. The main aim has been to give a clear understanding of the principles underlying engineering design, and a special effort has been made to indicate the shortest analysis of a wide variety of problem. Each chapter is complete in itself and is built up logically to cover all aspects of the particular theory. The book is written in a simple and easy to follow language, so that even an average student can grasp the subject by self study. In the preparation of this book large number of books and research papers have been consulted. So no authenticity is claimed. Contents: Fundamentals of Engineering Mechanics, Beams and Cables, Trusses, Moments and Products of Inertia, Friction, Kinematics of Rigid Bodies: Relative Motion, Kinetics of Plane Motion of Rigid Bodies.

Mechanics of Materials - Formulas and Problems

For the students of Polytechnic Diploma Courses in Engineering & Technology. Numerous solved problems, questions for self examination and problems for practice are given in each chapter. Includes eight Laboratory Experiments.

Engineering Mechanics : (As Per The New Syllabus, B.Tech. 1 Year Of U.P. Technical University)

Engineering Practical Book Vol-II

Electronics & Communication Engineering is a simple e-Book for Electronics & Communication Diploma & Engineering Course Revised Syllabus in 2018, It contains objective questions with underlined & bold correct answers MCQ covering all topics including all about the latest & Important about Professional Communication, Industrial Management and Entrepreneurship Development, Applied Mathematics III, Electrical Engineering, Environmental Education & Disaster Management, Applied Physics, Industrial Electronics & Transducers, Communication System, Applied Chemistry, Network Filters & Transmission Lines, Electronic Instruments And Measurement., Applied Mechanics, Electronic Devices and Circuits., Construction Management, Accounts & Entrepreneurship Development, Engineering Mechanics & Materials, Principles of Communication Engineering., Audio and Video System, Electrical Engineering I, Principles of Digital Electronics, Television Engineering, Electronic Components and Devices., Electronics Workshop., Microprocessor and Application., Technical Drawing., Programming in C & C++, Project -I. Problem, Elementary Workshop Practice., Computer Application for Engineering, Modern Communication System, Microelectronics, Electronic Equipment Testing, Advance, Microprocessor & Interface Microwave & Radar Engineering, Modern Consumer Electronics Appliances, Bio-Medical Electronics and lots more.

Mechanical Engineering Questions with Answers 3000+ MCQs

Mechanical Engineering is a simple e-Book for Mechanical Diploma & Engineering Course, Revised Syllabus in 2018, It contains objective questions with underlined & bold correct answers MCQ covering all topics including all about the latest & Important about Engineering Physics, Applied Mechanics, Engineering Drawing/Graphics, Material Science, Mechanical Drafting, Communication Skills, Basic Civil Engineering, Manufacturing Engineering, Fluid Mechanics, Thermal Engineering, Thermodynamics Theory of Machines, Strength of Materials, CADD, Applied Electronics and Electrical Engineering, Metrology and Instrumentation, CADD (Computer Aided Machine Design and Drawing), Plant Maintenance and Safety, Thermal Engineering, Computer Aided Manufacturing, Design of Machine Elements, Tool Engineering, Manufacturing Engineering, Industrial Manufacturing, Industrial Design and lots more.

Polytechnic Applied Mechanics

The importance of practical training in engineering education, as emphasized by the AICTE, has motivated the authors to compile the work of various engineering laboratories into a systematic text and practical laboratory book. The manual is written in a simple language and lucid style. It is hoped that students will

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understand the manual without any difficulty and perform the experiments. The first part of the book has been designed to cover the mechanics and testing of Materials as per ASTM standards. It incorporates basics of mechanics required to handle the latest testing equipment's for testing of Materials. Later half of the book covers the basic science and properties of materials along with the micro analysis of the materials. Brief theory and basic fundamentals have been incorporated to understand the experiments and for the preparation of lab report independently. Sample calculations have been provided to help the students in tabulating the experimental and theoretical results, comparing and interpreting them within technical frame. The book also covers the general aspects for the preparation of a technical report and precautions to be taken in the laboratories for accurate and save performance of experiments. In end of each experiment questions related to each experiment have been provided to test the depth of knowledge gained by the students. The manual has been prepared as per the general requirements of strength of material laboratory and Material science text laboratories for any graduate and Diploma level class syllabus. Material mechanics, testing and their analysis is an important engineering aspect and its knowledge is applied in almost all industries. We hope that manual would be useful for establishing a new laboratory and for the students of all branches. Any suggestions for further improvement of the manual will be welcome and incorporated in the next edition.

Engineering Mechanics 3

Engineering Mechanics

Structural Engineering, Mechanics and Computation

This book contains the most important 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 solution path and formulating the basic equations. Topics include: - Stress - Strain - Hooke's Law - Tension and Compression in Bars - Bending of Beams - Torsion - Energy Methods - Buckling of Bars - Hydrostatics

Engineering Mechanics

Dynamics - Formulas and Problems

Engineering Mechanics

Following on from the International Conference on Structural Engineering, Mechanics and Computation, held in Cape Town in April 2001, this book contains the Proceedings, in two volumes. There are over 170 papers written by Authors from around 40 countries worldwide. The contributions include 6 Keynote Papers and 12 Special Invited Papers. In line with the aims of the SEMC 2001 International Conference, and as may be seen from the List of Contents, the papers cover a wide range of topics under a variety of themes. There is a healthy balance between papers of a theoretical nature, concerned with various aspects of structural mechanics and computational issues, and those of a more practical nature, addressing issues of design, safety and construction. As the contributions in these Proceedings show, new and more efficient methods of structural analysis and numerical computation are being explored all the time, while exciting structural materials such as glass have recently come onto the scene. Research interest in the repair and rehabilitation of existing infrastructure continues to grow, particularly in Europe and North America, while the challenges to protect human life and property against the effects of fire, earthquakes and other hazards are being addressed through the development of more appropriate design methods for buildings, bridges and other engineering structures.

Mechanics of Composite Structural Elements

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Mechanical Engineering Questions with Answers 3000+ MCQs For IES, GATE, PSC and PSU, NET/SET/JRF Dear Mechanical Engineering students, we provide Mechanical Engineering multiple choice questions and answers with explanation & Mechanical Engineering Basic objective type questions mcqs book here. These are very important & Helpful for campus placement test, semester exams, job interviews and competitive exams like UPSC, GATE, IES, PSC and PSU, NET/SET/JRF and diploma. Index 1. Compressors, Gas Turbines and Jet Engines 2. Engineering Materials 3. Fluid Mechanics 4. Heat Transfer 5. Hydraulic Machines 6. I.C. Engines 7. Machine Design 8. Nuclear Power Plants 9. Production Technology 10. Production Management and Industrial Engineering 11. Refrigeration and Air Conditioning 12. Strength of Materials 13. Steam Boilers, Engines, Nozzles and Turbines 14. Thermodynamics 15. Theory of Machines 16. Engineering Mechanics 17. Workshop Technology

Electronics Communication Engineering

Engineering Mechanics 2

The second edition of Engineering Mechanics is specially designed as a textbook for undergraduate students of engineering. It provides a detailed and holistic

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treatment of the basic theories and principles of both statics and dynamics. Starting from the fundamental concepts of force and equilibrium along with free body diagrams, this book comprehensively covers the various analytical aspects of rigid body mechanics, including a suitable discourse on simple lifting machines. Within each chapter, the simpler topics and problems precede those that are more complex and advanced. Each chapter starts with the key concepts and gradually builds up on the advanced topics using detailed and easy-to-understand illustrations.

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