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This series of comprehensive manuals gives the home mechanic an in-depth look at specific areas of auto repair. Simulation of ODE/PDE Models with MATLAB®, OCTAVE and SCILAB shows the reader how to exploit a fuller array of numerical methods for the analysis of complex scientific and engineering systems than is conventionally employed. The book is dedicated to numerical simulation of distributed parameter systems described by mixed systems of algebraic equations, ordinary differential equations (ODEs) and partial differential equations (PDEs). Special attention is paid to the numerical method of lines (MOL), a popular approach to the solution of time-dependent PDEs, which proceeds in two basic steps: spatial discretization and time integration. Besides conventional finite-difference and element techniques, more advanced spatial-approximation methods are examined in some detail, including nonoscillatory schemes and adaptive-grid approaches. A MOL toolbox has been developed within MATLAB®, OCTAVE/SCILAB. In addition to a set of spatial approximations and time integrators, this toolbox includes a collection of application examples, in specific areas, which can serve as templates for developing new programs. Simulation of ODE/PDE Models with MATLAB®, OCTAVE and SCILAB provides a practical introduction to some advanced computational techniques for dynamic system simulation, supported by many worked examples in the text, and a collection of codes available for download from the book's page at [www.springer.com](http://www.springer.com). This text is suitable for self-study by practicing scientists and engineers and as a final-year undergraduate course or at the graduate level. This book is now adapted into SI Units for the convenience of students. The third edition was completely rewritten and expanded. The previous editions endeavoured to show 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 processes of thinking 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 of plane and space statics " Dynamics has been reorganised and rewritten to take full advantage of vector notation " Sections on advanced or specialized topics are identified by an asterisk " Topics are presented in a manner that will relieve instructors of the burden of detailed explanation " Completely revised set of more than 1200 problems " Numbering plan used in this revision enables one to locate quickly any cross reference This is the revised edition of the book with new chapters to incorporate the latest developments in the field. It contains approx. 200 problems from various competitive examinations (GATE, IES, IAS) have been included. The author does hope that with this, the utility of the book will be further enhanced. # Extensive Table Of Properties Of Saturated Steam Both Temperature Based And Pressure Based# Elaborate Table Of Properties Of Superheated Steam With All Required Properties Readable At One Glance# Table Of Van Der Waalls Constants And Critical Compressibility Factor For Gases# Table Of Enthalpy Of Formation And Higher And Lower Heating Values Of Fuels# Table Of Thermodynamic Properties Of Gases# Table Of Thermal Properties Of Saturated Water# Mollier Chart For Steam# Psychrometric Chart# Generalized Compressibility Chart Engineering Mechanics Is A Core Subject Taught To Engineering Students In The First Year Of Their Course By Going Through This Subject. The Students Develop The Capability To Model Actual Problem In To An Engineering Problem And Find The Solutions Using Laws At Mechanics. The Neat Free-Body Diagrams Are Presented And Problems Are Solved Systematically To Make The Procedure Clear. Throughout Si Units And Standard Notations Are Recommended By Indian Standard Codes Are Used. The Author Has Tried To Meet The Needs Of Syllabi Of Almost All Universities. A modern vector oriented treatment of classical dynamics and its application to engineering problems. This book introduces Bayesian reasoning and Gaussian processes into machine learning applications. Bayesian methods are applied in many areas, such as game development, decision making, and drug discovery. It is very effective for machine learning algorithms in handling missing data and extracting information from small datasets. Bayesian Reasoning and Gaussian Processes for Machine Learning Applications uses a statistical background to understand continuous distributions and how learning can be viewed from a probabilistic framework. The chapters progress into such machine learning topics as belief network and Bayesian reinforcement learning, which is followed by Gaussian process introduction, classification, regression, covariance, and performance analysis of Gaussian processes with other models. FEATURES Contains recent advancements in machine learning Highlights applications of machine learning algorithms Offers both quantitative and qualitative research Includes numerous case studies This book is aimed at graduates, researchers, and professionals in the field of data science and machine learning. "Advanced Engineering Mathematics" is written for the students of all engineering disciplines. Topics such as Partial Differentiation, Differential Equations, Complex Numbers, Statistics, Probability, Fuzzy Sets and Linear Programming which are an important part of all major universities have been well-explained. Filled with examples and in-text exercises, the book successfully helps the student to practice and retain the understanding of otherwise difficult concepts. 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. "This book is an introduction to automotive technology, with specific reference to battery electric, hybrid electric, and fuel cell electric vehicles. It could serve electrical engineers who need to know more about automobiles or automotive engineers who need to know about electrical propulsion systems. For example, this reviewer, who is a specialist in electric machinery, could use this book to better understand the automobiles for which the reviewer is designing electric drive motors. An automotive engineer, on the other hand, might use it to better understand the nature of motors and electric storage systems for application in automobiles, trucks or motorcycles. The early chapters of the book are accessible to technically literate people who need to know something about cars. While the first chapter is historical in nature, the second chapter is a good introduction to automobiles, including dynamics of propulsion and braking. The third chapter discusses, in some detail, spark ignition and compression ignition (Diesel) engines. The fourth chapter discusses the nature of transmission systems." —James Kirtley, Massachusetts Institute of Technology, USA "The third edition covers extensive topics in modern electric, hybrid electric, and fuel cell vehicles, in which the profound knowledge, mathematical modeling, simulations, and control are clearly presented. Featured with design of various vehicle drivetrains, as well as a multi-objective optimization software, it is an estimable work to meet the needs of automotive industry." —Haiyan Henry Zhang, Purdue University, USA "The extensive combined experience of the authors have produced an extensive volume covering a broad range but detailed topics on the principles, design and architectures of Modern Electric, Hybrid Electric, and Fuel Cell Vehicles in a well-structured, clear and concise manner. The volume offers a complete overview of technologies, their selection, integration & control, as well as an interesting Technical Overview of the Toyota Prius. The technical chapters are complemented with example problems and user guides to assist the reader in practical calculations through the use of common scientific computing packages. It will be of interest mainly to research postgraduates working in this field as well as established academic researchers, industrial R&D engineers and allied professionals." —Christopher Donaghy-Spang, Durham University, United Kingdom The book deals with the fundamentals, theoretical bases, and design methodologies of conventional internal combustion engine (ICE) vehicles, electric vehicles (EVs), hybrid electric vehicles (HEVs), and fuel cell vehicles (FCVs). The design methodology is described in mathematical terms, step-by-step, and the topics are approached from the overall drive train system, not just individual components. Furthermore, in explaining the design methodology of each drive train, design examples are presented with simulation results. All the chapters have been updated, and two new chapters on Mild Hybrids and Optimal Sizing and Dimensioning and Control are also included • Chapters updated throughout the text. • New homework problems, solutions, and examples. • Includes two new chapters. • Features accompanying MATLAB™ software. This is an honest look at the origins of lean, written in the words of the people who created the system. Through interviews and annotated talks, you will hear first-person accounts of what these innovators and problem-solvers did and why they did it. You'll read rare, personal commentaries that explain the interplay of (sometimes opposing) ideas that created a revolution in thinking. A Textbook of Engineering Physics is written with two distinct objectives: to provide a single source of information for engineering undergraduates of different specializations and provide them a solid base in physics. Successive editions of the book incorporated topics as required by students pursuing their studies in various universities. In this new edition the contents are fine-tuned, modernized and updated at various stages. Tenzing Norgay was the son of poor Tibetan immigrants living in Nepal. He longed to see the world but was told he could aspire to be little more than a servant. Edmund Hillary was a humble beekeeper from New Zealand, who spent his youth dreaming of adventures he could never hope to experience. And Everest was the ultimate

adventure. The mountain's peak is the highest point on Earth, stretching beyond the clouds. So dangerous and challenging, Everest had never been successfully climbed and many had died trying. In 1953, Tenzing Norgay and Edmund Hillary joined a team of explorers determined to reach its top. Alone at the top of the world with their oxygen running low, they faced brutal elements and new dangers at every turn. And they were armed with little more than their courage, determination, and a belief in each other. But would that be enough to achieve the impossible, what no man had done before? In keeping with previous editions, this book offers a strong conceptual approach to fluids, based on mechanics principles. The author provides rigorous coverage of underlying math and physics principles, and establishes clear links between the basics of fluid flow and subsequent advanced topics like compressible flow and viscous fluid flow. The book is the outcome of the authors' long experience of teaching business law and company law to students pursuing undergraduate and postgraduate courses at the University of Delhi. This, in fact, has made it possible for them to write on law without the use of legal jargon; thus ensuring that even the most complicated provisions of various legislations are explained in an easily comprehensible manner. This new edition of the book has been thoroughly updated and revised in accordance with the Companies Act, 2013. The amendments introduced by the Insolvency and Bankruptcy Code, 2016, through its Eleventh Schedule to the Companies Act, 2013 have also been duly incorporated. Statics is the first 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 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. This Is A Comprehensive Book Meeting Complete Requirements Of Engineering Mechanics Course Of Undergraduate Syllabus. Emphasis Has Been Laid On Drawing Correct Free Body Diagrams And Then Applying Laws Of Mechanics. Standard Notations Are Used Throughout And Important Points Are Stressed. All Problems Are Solved Systematically, So That The Correct Method Of Answering Is Illustrated Clearly. Care Has Been Taken To See That Students Learn The Methods Which Help Them Not Only In This Course, But Also In The Connected Courses Of Higher Classes. The Dynamics Part Is Split In To Sufficient Number Of Chapters To Clearly Illustrate Linear Motion To General Plane Motion. A Chapter On Shear Force And Bending Moment Diagrams Is Added At The End To Coyer The Syllabi Of Various Universities. All These Feature Make This Book A Self-Sufficient And A Good Text Book. The Favourable and warm reception, which the previous editions and reprints of this booklet have enjoyed at home and abroad, has been a matter of great satisfaction to me. The present edition is brought up to incorporate the useful suggestions from a number of readers and teachers for the benefit of students. A topic on common-collector configuration is added to the chapter XIII. A new chapter on logic gates is intruded at the end. Keeping in view the present style of university Question papers, a number of very short, short and long thoroughly revised and corrected to remove the errors which crept into earlier editions. Learn the hand-crafted notes on C programming Key Features Strengthens the foundations, as a detailed explanation of programming language concepts are given. Lucid explanation of the concept Well thought-out, fully working programming examples End-of-chapter exercises that would help you practice the skills learned in the chapter Hand-crafted "KanNotes" at the end of the each chapter that would help the reader remember and revise the concepts covered in the chapter Focuses on how to think logically to solve a problem Description The new edition of this classic book has been thoroughly revamped, but remains faithful to the principles that have established it as a favourite amongst students, teachers and software professionals round the world. "Simplicity" - that has been the hallmark of this book in not only its previous sixteen English editions, but also in the Hindi, Gujarati, Japanese, Korean, Chinese and US editions. This book doesn't assume any programming background. It begins with the basics and steadily builds the pace so that the reader finds it easy to handle advanced topics towards the end of the book. What will you learn C Instructions Decision Control Instruction, Loop Control Instruction, Case Control Instruction Functions, Pointers, Recursion Data Types, The C Preprocessor Arrays, Strings Structures, Console Input/Output, File Input/Output Who this book is for Students, Programmers, researchers, and software developers who wish to learn the basics of C++ programming language. Table of Contents 1. Getting Started 2. C Instructions 3. Decision Control Instruction 4. More Complex Decision Making 5. Loop Control Instruction 6. More Complex Repetitions 7. Case Control Instruction 8. Functions 9. Pointers 10. Recursion 11. Data Types Revisited 12. The C Preprocessor 13. Arrays 14. Multidimensional Arrays 15. Strings 16. Handling Multiple Strings 17. Structures 18. Console Input/Output 19. File Input/Output 20. More Issues In Input/Output 21. Operations On Bits 22. Miscellaneous Features 23. Interview FAQs Appendix A- Compilation and Execution Appendix B- Precedence Table Appendix C- Chasing the Bugs Appendix D- ASCII Chart Periodic Tests I to IV, Course Tests I, II Index About the Authors Through his books and Quest Video Courses on C, C++, Java, Python, Data Structures, .NET, IoT, etc. Yashavant Kanetkar has created, molded and groomed lacs of IT careers in the last three decades. Yashavant's books and Quest videos have made a significant contribution in creating top-notch IT manpower in India and abroad. Yashavant's books are globally recognized and millions of students/professionals have benefitted from them. Yashavant's books have been translated into Hindi, Gujarati, Japanese, Korean and Chinese languages. Many of his books are published in India, USA, Japan, Singapore, Korea and China. Yashavant is a much sought after speaker in the IT field and has conducted seminars/workshops at TedEx, IITs, IIITs, NITs and global software companies. Yashavant has been honored with the prestigious "Distinguished Alumnus Award" by IIT Kanpur for his entrepreneurial, professional and academic excellence. This award was given to top 50 alumni of IIT Kanpur who have made a significant contribution towards their profession and betterment of society in the last 50 years. His LinkedIn profile: [linkedin.com/in/yashavant-kanetkar-9775255](https://www.linkedin.com/in/yashavant-kanetkar-9775255) In his revision of Engineering Mechanics, R.C. Hibbeler empowers readers to succeed in the whole learning experience. Hibbeler achieves this by calling on his everyday classroom experience and his knowledge of how people learn inside and outside of lecture. This text is ideal for civil and mechanical engineering professionals. MasteringEngineering, the most technologically advanced online tutorial and homework system, is available with this edition. Subscriptions to MasteringEngineering are available to purchase online or packaged with your textbook (unique ISBN). Note: This is a standalone book, if you want the book/access card order the ISBN below: 0133014622 / 9780133014624 Engineering Mechanics: Statics & Dynamics plus MasteringEngineering with Pearson eText -- Access Card Package Package consists of: 0132915480 / 9780132915489 Engineering Mechanics: Statics & Dynamics 0132915723 / 9780132915724 MasteringEngineering with Pearson eText -- Access Card -- for Engineering Mechanics: Statics & Dynamics This textbook is intended for courses in heat transfer for undergraduates, not only in chemical engineering and related disciplines of biochemical engineering and chemical technology, but also in mechanical engineering and production engineering. The author provides the reader with a very thorough account of the fundamental principles and their applications to engineering practice, including a survey of the recent developments in heat transfer equipment. The three basic modes of heat transfer - conduction, convection and radiation - have been comprehensively analyzed and elucidated by solving a wide range of practical and design-oriented problems. A whole chapter has been devoted to explain the concept of the heat transfer coefficient to give a feel of its importance in tackling problems of convective heat transfer. The use of the important heat transfer correlations has been illustrated with carefully selected examples. Provides a thorough understanding of the principles and applications of engineering mechanics. Beginning with an introduction to the subject, the book provides a detailed treatment of systems of forces and explains the concepts of centroid and centre of gravity, moment of inertia, virtual work, friction, kinematics of particle and motion of projectiles. It also discusses the laws of motion, power and energy, and collision of elastic bodies in dynamics.

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