

Chapter 5 continued

$$\begin{aligned}
 &= 10.2 \text{ N} \\
 F_{C \text{ on box},y} &= F_{C \text{ on box}} \sin \theta_A \\
 &= (17.7 \text{ N})(\sin 55^\circ) \\
 &= 14.5 \text{ N} \\
 F_{g,x} &= 0.0 \text{ N} \\
 F_{g,y} &= -mg \\
 &= -(3.20 \text{ kg})(9.80 \text{ m/s}^2) \\
 &= -31.4 \text{ N} \\
 F_{\text{net on box},x} &= F_{A \text{ on box},x} + \\
 &\quad F_{C \text{ on box},x} + F_{g,x} \\
 &= -10.2 \text{ N} + 10.2 \text{ N} + 0.0 \text{ N} \\
 &= 0.0 \text{ N} \\
 F_{\text{net on box},y} &= F_{A \text{ on box},y} + \\
 &\quad F_{C \text{ on box},y} + F_{g,y} \\
 &= 17.7 \text{ N} + 14.5 \text{ N} - 31.4 \text{ N} \\
 &= 0.8 \text{ N}
 \end{aligned}$$

The net force is 0.8 N in the upward direction.

7. You first walk 8.0 km north from home, then walk east until your displacement from home is 10.0 km. How far east did you walk?

The resultant is 10.0 km. Using the Pythagorean Theorem, the distance east is

$$\begin{aligned}
 R^2 &= A^2 + B^2, \text{ so} \\
 B &= \sqrt{R^2 - A^2} \\
 &= \sqrt{(10.0 \text{ km})^2 - (8.0 \text{ km})^2} \\
 &= 6.0 \text{ km}
 \end{aligned}$$

8. A child's swing is held up by two ropes tied to a tree branch that hangs 13.0° from the vertical. If the tension in each rope is 2.28 N, what is the combined force (magnitude and direction) of the two ropes on the swing?

The force will be straight up. Because the angles are equal, the horizontal forces will be equal and opposite and cancel out. The magnitude of this vertical force is

$$\begin{aligned}
 F_{\text{combined}} &= F_{\text{rope1 on swing}} \cos \theta + \\
 &\quad F_{\text{rope2 on swing}} \cos \theta \\
 &= 2F_{\text{rope2 on swing}} \cos \theta \\
 &= (2)(2.28 \text{ N})(\cos 13.0^\circ) \\
 &= 4.44 \text{ N upward}
 \end{aligned}$$

9. Could a vector ever be shorter than one of its components? Equal in length to one of its components? Explain.

It could never be shorter than one of its components, but if it lies along either the x - or y -axis, then one of its components equals its length.

10. In a coordinate system in which the x -axis is east, for what range of angles is the x -component positive? For what range is it negative?

The x -component is positive for angles less than 90° and for angles greater than 270° . It's negative for angles greater than 90° but less than 270° .

Section Review

5.1 Vectors pages 119–125

page 125

11. **Distance v. Displacement** Is the distance that you walk equal to the magnitude of your displacement? Give an example that supports your conclusion.
Not necessarily. For example, you could walk around the block (one km per side). Your displacement would be zero, but the distance that you walk would be 4 kilometers.
12. **Vector Difference** Subtract vector K from vector L , shown in Figure 5-7.

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**Yihong Qiu, Yisheng Chen, Geoff G.Z.
Zhang, Lirong Liu, William Porter**



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Holt Physics Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 1998-03 **Holt Physics** Raymond A. Serway, 2002 **Elementary Differential Equations** William E. Boyce, Richard C. DiPrima, Douglas B. Meade, 2017-08-14

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Elementary Differential Equations and Boundary Value Problems 12th Edition is written from the viewpoint of the applied mathematician whose interest in differential equations may sometimes be quite theoretical sometimes intensely practical and often somewhere in between In this revision new author Douglas Meade focuses on developing students conceptual understanding with new concept questions and worksheets for each chapter Meade builds upon Boyce and DiPrima's work to combine a sound and accurate but not abstract exposition of the elementary theory of differential equations with considerable material on methods of solution analysis and approximation that have proved useful in a wide variety of applications The main prerequisite for engaging with the program is a working knowledge of calculus gained from a normal two or three semester course sequence or its equivalent Some familiarity with matrices will also be helpful in the chapters on systems of differential equations **Molecular Physics and Elements of Quantum Chemistry** Hermann Haken, Hans Christoph Wolf, 2013-03-09

This textbook is intended for use by students of physics physical chemistry and theoretical chemistry The reader is presumed to have a basic knowledge of atomic and quantum physics at the level provided for example by the first few chapters in our book *The Physics of Atoms and Quanta* The student of physics will find here material which should be

included in the basic education of every physicist This book should furthermore allow students to acquire an appreciation of the breadth and variety within the field of molecular physics and its future as a fascinating area of research For the student of chemistry the concepts introduced in this book will provide a theoretical framework for his or her field of study With the help of these concepts it is at least in principle possible to reduce the enormous body of empirical chemical knowledge to a few fundamental rules those of quantum mechanics In addition modern physical methods whose fundamentals are introduced here are becoming increasingly important in chemistry and now represent indispensable tools for the chemist As examples we might mention the structural analysis of complex organic compounds spectroscopic investigation of very rapid reaction processes or as a practical application the remote detection of pollutants in the air Physics Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2006 *Books in Print Supplement*, 2002 *The Specific Heat Of Matter At Low Temperatures* Ahmet Tari, 2003-08-12 Recent discoveries of new materials and improvements in calorimetric techniques have given new impetus to the subject of specific heat Nevertheless there is a serious lack of literature on the subject This invaluable book which goes some way towards remedying that is concerned mainly with the specific heat of matter at ordinary temperatures It discusses the principles that underlie the theory of specific heat and considers a number of theoretical models in some detail The subject matter ranges from traditional materials to those recently discovered heavy fermion compounds high temperature superconductors spin glasses and so on and includes a large number of figures tables and references The book will be particularly useful for advanced undergraduate and postgraduate students as well as academics and researchers a

Variational Problems Within the Class of Solutions of a Partial Differential Equation Robert Delver, 1971 *Forthcoming Books* Rose Army, 2003-04 Material Behavior Under High Stress and Ultrahigh Loading Rates John Mescall, Volker Weiss, 2013-03-07 The Army Materials and Mechanics Research Center in cooperation with the Materials Science Group of the Department of Chemical Engineering and Materials Science of Syracuse University has been conducting the Annual Sagamore Army Materials Research Conference since 1954 The specific purpose of these conferences has been to bring together scientists and engineers from academic institutions industry and government who are uniquely qualified to explore in depth a subject of importance to the Department of Defense the Army and the scientific community The proceedings of this conference entitled MATERIAL BEHAVIOR UNDER HIGH STRESS AND ULTRAHIGH LOADING RATES will be published in two parts The topics covered in the present volume include dynamic plasticity adiabatic shear localized deformation and dynamic fracture mechanics Papers dealing with ordnance applications projectile launch environment and recent work in progress will appear as an AMMRC Technical Report and will have more limited distribution in accordance with recent Army guidelines The Conference Chairmen are particularly grateful to the members of the Program Committee We wish also to acknowledge the assistance of Mr Charles Polley of the Army Materials and Mechanics Research Center Mr Robert Sell Ms Helen Brown DeMascio and Ms Mary Ann Holmquist of Syracuse University throughout the conference planning stages and

the publication of the text The continued active interest in and support of these conferences by Dr E Wright and Col George Sibert Direct and Deputy Director Commander respectively of the Army Materials and Mechanics Research Center is appreciated

Mechanical Vibration Haym Benaroya, Mark Nagurka, 2009-06-10 Mechanical Vibration Analysis Uncertainties and Control simply and comprehensively addresses the fundamental principles of vibration theory emphasizing its application in solving practical engineering problems The authors focus on strengthening engineers command of mathematics as a cornerstone for understanding vibration control and the ways in which uncertainties affect analysis It provides a detailed exploration and explanation of the essential equations involved in modeling vibrating systems and shows readers how to employ MATLAB as an advanced tool for analyzing specific problems Forgoing the extensive and in depth analysis of randomness and control found in more specialized texts this straightforward easy to follow volume presents the format content and depth of description that the authors themselves would have found useful when they first learned the subject The authors assume that the readers have a basic knowledge of dynamics mechanics of materials differential equations and some knowledge of matrix algebra Clarifying necessary mathematics they present formulations and explanations to convey significant details The material is organized to afford great flexibility regarding course level content and usefulness in self study for practicing engineers or as a text for graduate engineering students This work includes example problems and explanatory figures biographies of renowned contributors and access to a website providing supplementary resources These include an online MATLAB primer featuring original programs that can be used to solve complex problems and test solutions

Thermoelectrics HoSung Lee, 2016-09-07 Thermoelectrics Design and Materials HoSung Lee Western Michigan University USA A comprehensive guide to the basic principles of thermoelectrics Thermoelectrics plays an important role in energy conversion and electronic temperature control The book comprehensively covers the basic physical principles of thermoelectrics as well as recent developments and design strategies of materials and devices The book is divided into two sections the first section is concerned with design and begins with an introduction to the fast developing and multidisciplinary field of thermoelectrics This section also covers thermoelectric generators and coolers refrigerators before examining optimal design with dimensional analysis A number of applications are considered including solar thermoelectric generators thermoelectric air conditioners and refrigerators thermoelectric coolers for electronic devices thermoelectric compact heat exchangers and biomedical thermoelectric energy harvesting systems The second section focuses on materials and covers the physics of electrons and phonons theoretical modeling of thermoelectric transport properties thermoelectric materials and nanostructures Key features Provides an introduction to a fast developing and interdisciplinary field Includes detailed fundamental theories Offers a platform for advanced study Thermoelectrics Design and Materials is a comprehensive reference ideal for engineering students as well as researchers and practitioners working in thermodynamics Cover designed by Yujin Lee

Elliptic Marching Methods and Domain Decomposition

Patrick J. Roache,1995-06-29 One of the first things a student of partial differential equations learns is that it is impossible to solve elliptic equations by spatial marching This new book describes how to do exactly that providing a powerful tool for solving problems in fluid dynamics heat transfer electrostatics and other fields characterized by discretized partial differential equations Elliptic Marching Methods and Domain Decomposition demonstrates how to handle numerical instabilities i e limitations on the size of the problem that appear when one tries to solve these discretized equations with marching methods The book also shows how marching methods can be superior to multigrid and pre conditioned conjugate gradient PCG methods particularly when used in the context of multiprocessor parallel computers Techniques for using domain decomposition together with marching methods are detailed clearly illustrating the benefits of these techniques for applications in engineering applied mathematics and the physical sciences **Numerical Methods in Fluid Dynamics**

Maurice Holt,2012-12-06 From the reviews of the first edition This book is directed to graduate students and research workers interested in the numerical solution of problems of fluid dynamics primarily those arising in high speed flow The book is well arranged logically presented and well illustrated It contains several FORTRAN programmes with which students could experiment It is a practical book with emphasis on methods and their implementation It is an excellent text for the fruitful research area it covers and is highly recommended Journal of Fluid Mechanics 1 From the reviews of the second edition The arrangement of chapters in the book remains practically the same as that in the first edition 1977 except for the inclusion of Glimm's method This book is highly recommended for both graduate students and researchers Applied Mechanics Reviews 1 Striving for Excellence ,1995 Each vol a compilation of ERIC digests **Solving Elliptic Problems Using**

ELLPACK John R. Rice,Ronald F. Boisvert,2012-12-06 ELLPACK is a many faceted system for solving elliptic partial differential equations It is a forerunner of the very high level problem solving environments or expert systems that will become common in the next decade While it is still far removed from the goals of the future it is also far advanced compared to the Fortran library approach in common current use Many people will find ELLPACK an easy way to solve simple or moderately complex elliptic problems Others will be able to solve really hard problems by digging a little deeper into ELLPACK ELLPACK is a research tool for the study of numerical methods for solving elliptic problems Its original purpose was for the evaluation and comparison of numerical software for elliptic problems Simple examples of this use are given in Chapters 9 11 The general conclusion is that there are many ways to solve most elliptic problems there are large differences in their efficiency and the most common ways are often less efficient sometimes dramatically so **Developing Solid Oral Dosage**

Forms Yihong Qiu,Yisheng Chen,Geoff G.Z. Zhang,Lirong Liu,William Porter,2009-03-10 Developing Solid Oral Dosage Forms is intended for pharmaceutical professionals engaged in research and development of oral dosage forms It covers essential principles of physical pharmacy biopharmaceutics and industrial pharmacy as well as various aspects of state of the art techniques and approaches in pharmaceutical sciences and technologies along with examples and or case studies in

product development The objective of this book is to offer updated or current knowledge and skills required for rational oral product design and development The specific goals are to provide readers with Basics of modern theories of physical pharmacy biopharmaceutics and industrial pharmacy and their applications throughout the entire process of research and development of oral dosage forms Tools and approaches of preformulation investigation formulation process design characterization and scale up in pharmaceutical sciences and technologies New developments challenges trends opportunities intellectual property issues and regulations in solid product development The first book ever that provides comprehensive and in depth coverage of what s required for developing high quality pharmaceutical products to meet international standards It covers a broad scope of topics that encompass the entire spectrum of solid dosage form development for the global market including the most updated science and technologies practice applications regulation intellectual property protection and new development trends with case studies in every chapter A strong team of more than 50 well established authors co authors of diverse background knowledge skills and experience from industry academia and regulatory agencies

Structure of Matter Attilio Rigamonti,Pietro Carretta,2015-06-13 This textbook now in its third edition provides a formative introduction to the structure of matter that will serve as a sound basis for students proceeding to more complex courses thus bridging the gap between elementary physics and topics pertaining to research activities The focus is deliberately limited to key concepts of atoms molecules and solids examining the basic structural aspects without paying detailed attention to the related properties For many topics the aim has been to start from the beginning and to guide the reader to the threshold of advanced research This edition includes four new chapters dealing with relevant phases of solid matter magnetic electric and superconductive and the related phase transitions The book is based on a mixture of theory and solved problems that are integrated into the formal presentation of the arguments Readers will find it invaluable in enabling them to acquire basic knowledge in the wide and wonderful field of condensed matter and to understand how phenomenological properties originate from the microscopic quantum features of nature

Fundamentals Of Solid State Electronics Chih Tang Sah,1991-10-30 This is perhaps the most comprehensive undergraduate textbook on the fundamental aspects of solid state electronics It presents basic and state of the art topics on materials physics device physics and basic circuit building blocks not covered by existing textbooks on the subject Each topic is introduced with a historical background and motivations of device invention and circuit evolution Fundamental physics is rigorously discussed with minimum need of tedious algebra and advanced mathematics Another special feature is a systematic classification of fundamental mechanisms not found even in advanced texts It bridges the gap between solid state device physics covered here with what students have learnt in their first two years of study Used very successfully in a one semester introductory core course for electrical and other engineering materials science and physics junior students the second part of each chapter is also used in an advanced undergraduate course on solid state devices The inclusion of previously unavailable analyses of the basic transistor digital

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web nov 18 2022 in this simple transistor intercom circuit to speak we first press s1 as a result the circuit worked as the transmitter that 8 ohm loudspeaker will serve as a microphone to communicate with the circuit by sending an audio signal its coil induces an oscillation which produces a little signal wave

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