

So

$$\frac{dQ}{dt} = AD = \frac{A}{L} \left(B[T_1 - T_2] + \frac{C}{2}[T_1^2 - T_2^2] \right).$$

This can conveniently be rearranged to give

►
$$\frac{dQ}{dt} = \frac{A}{L}(T_1 - T_2) \left(B + \frac{C}{2}[T_1 + T_2] \right).$$

[We can see that this gives the right answer when $C = 0$ (i.e. when the conductivity does not change with temperature). We can also see that the answer is plausible when $C \neq 0$, since $B + C(T_1 + T_2)/2$ is the mean value of the conductivities at the two ends of the wire.]

Problem 170

A light bulb filament is constructed from 2 cm of tungsten wire of diameter $50 \mu\text{m}$ and is enclosed in an evacuated glass bulb. What temperature does the filament reach when it is operated at a power of 1 W? (Assume the emissivity of the tungsten surface to be 0.4.)

Solution

The power radiated by area A of a black body at temperature T is given by Stefan's law:

$$\frac{P}{A} = \sigma T^4,$$

where σ is the Stefan-Boltzmann constant. Thus the power per unit area radiated by a body of emissivity ϵ is $\epsilon\sigma T^4$.

If the body's surroundings are at a temperature T_0 , it will absorb a power per unit area of $\epsilon\sigma T_0^4$ from them, so the net power emitted is

$$P = \epsilon\sigma(T^4 - T_0^4)A.$$

Taking $\epsilon = 0.4$, $\sigma = 5.67 \times 10^{-8} \text{ W m}^{-2} \text{ K}^{-4}$, $P = 1 \text{ W}$ and $A = \pi \times 0.02 \times 50 \times 10^{-6} \text{ m}^2 = 3.14 \times 10^{-6} \text{ m}^2$ gives

$$T^4 - T_0^4 = 1.404 \times 10^{13} \text{ K}^4.$$

It is clear that the temperature T_0 of the surroundings can be ignored unless it is very high [it would have to be $\approx 900 \text{ K}$ to make 1% difference to the answer], so we obtain $T = 1.94 \times 10^3 \text{ K}$.

►

Thermodynamics Math Problems With Solution

B. Das



Thermodynamics Math Problems With Solution:

Problems and Solutions in Thermoelasticity and Magneto-thermoelasticity B. Das, 2016-11-25 This book presents problems and solutions of the mathematical theories of thermoelasticity and magnetothermoelasticity The classical coupled and generalized theories are solved using the eigenvalue methodology Different methods of numerical inversion of the Laplace transform are presented and their direct applications are illustrated The book is very useful to those interested in continuum mechanics

The Thermodynamics of Electrical Phenomena in Metals, and A Condensed Collection of Thermodynamic Formulas Percy Williams Bridgman, 1961

Problems in Probability Theory, Mathematical Statistics and Theory of Random Functions A. A. Sveshnikov, 2012-04-30 Approximately 1 000 problems with answers and solutions included at the back of the book illustrate such topics as random events random variables limit theorems Markov processes and much more

Fluid and Thermodynamics Kolumban Hutter, Yongqi Wang, 2016-07-18 In this book fluid mechanics and thermodynamics F T are approached as interwoven not disjoint fields The book starts by analyzing the creeping motion around spheres at rest Stokes flows the Oseen correction and the Lagerstrom Kaplun expansion theories are presented as is the homotopy analysis 3D creeping flows and rapid granular avalanches are treated in the context of the shallow flow approximation and it is demonstrated that uniqueness and stability deliver a natural transition to turbulence modeling at the zero first order closure level The difference quotient turbulence model DQTM closure scheme reveals the importance of the turbulent closure schemes non locality effects Thermodynamics is presented in the form of the first and second laws and irreversibility is expressed in terms of an entropy balance Explicit expressions for constitutive postulates are in conformity with the dissipation inequality Gas dynamics offer a first application of combined F T The book is rounded out by a chapter on dimensional analysis similitude and physical experiments

Mechanics and Thermodynamics of Continua Hershel Markovitz, Victor J. Mizel, David R. Owen, 2012-12-06 Reprinted from Archive for Rational Mechanics and Analysis edited by C Truesdell

Thermodynamic Equilibria and Extrema Alexander N. Gorban, Boris M. Kaganovich, Sergey P. Filippov, Alexandre V. Keiko, Vitaly A. Shamansky, Igor A. Shirkalin, 2006-10-31 This book discusses mathematical models that are based on the concepts of classical equilibrium thermodynamics These are intended for the analysis of possible results of diverse natural and production processes Unlike traditional models these allow readers to view the achievable set of partial equilibria with regards to constraints on kinetics energy and mass exchange and to determine states of the studied systems of interest for the researcher Numerous examples illustrate practical application of the suggested models in chemical technology energy and ecology

Mathematical Techniques for Biology and Medicine William Simon, 1986-01-01 Extremely useful volume reviews basic calculus shows how physiological problems can be formulated in terms of differential equations Techniques applied to often encountered problems Bibliography

The Mathematical Theory of Thermodynamic Limits Isabelle Catto, Claude Le Bris, Pierre-Louis Lions, 1998 The thermodynamic limit is a

mathematical technique which allows us to consider crystals or other macroscopic objects as infinitely sized periodically arranged molecules This means that we can derive models in solid state physics from models in quantum chemistry Based on this technique the book presents established as well as new mathematical results for a large class of models in quantum chemistry

Matrix-geometric Solutions in Stochastic Models Marcel F. Neuts,1994-01-01 Topics include matrix geometric invariant vectors buffer models queues in a random environment and more

Mathematical Problems in Semiconductor Physics Angelo Marcello Anile,Walter Allegretto,Christian Ringhofer,2003-09-16 On the the mathematical aspects of the theory of carrier transport in semiconductor devices The subjects covered include hydrodynamical models for semiconductors based on the maximum entropy principle of extended thermodynamics mathematical theory of drift diffusion equations with applications and the methods of asymptotic analysis

College of Engineering University of Michigan. College of Engineering,1970

Mathematical Problems in Linear Viscoelasticity Mauro Fabrizio,Angelo Morro,1992-01-01 Describes general mathematical modeling of viscoelastic materials as systems with fading memory Discusses the interrelation between topics such as existence uniqueness and stability of initial boundary value problems variational and extremum principles and wave propagation Demonstrates the deep connection between the properties of the solution to initial boundary value problems and the requirements of the general physical principles Discusses special techniques and new methods including Fourier and Laplace transforms extremum principles via weight functions and singular surfaces and discontinuity waves

Solid Solutions in Silicate and Oxide systems C.A. Geiger,2001-01-01

Modeling and Computational Methods for Kinetic Equations Pierre Degond,Lorenzo Pareschi,Giovanni Russo,2012-12-06 In recent years kinetic theory has developed in many areas of the physical sciences and engineering and has extended the borders of its traditional fields of application New applications in traffic flow engineering granular media modeling and polymer and phase transition physics have resulted in new numerical algorithms which depart from traditional stochastic Monte Carlo methods This monograph is a self contained presentation of such recently developed aspects of kinetic theory as well as a comprehensive account of the fundamentals of the theory Emphasizing modeling techniques and numerical methods the book provides a unified treatment of kinetic equations not found in more focused theoretical or applied works The book is divided into two parts Part I is devoted to the most fundamental kinetic model the Boltzmann equation of rarefied gas dynamics Additionally widely used numerical methods for the discretization of the Boltzmann equation are reviewed the Monte Carlo method spectral methods and finite difference methods Part II considers specific applications plasma kinetic modeling using the Landau Fokker Planck equations traffic flow modeling granular media modeling quantum kinetic modeling and coagulation fragmentation problems Modeling and Computational Methods of Kinetic Equations will be accessible to readers working in different communities where kinetic theory is important graduate students researchers and practitioners in mathematical physics applied mathematics and various branches of engineering The work may be used for self study as a

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Students have generally found finite and discrete math difficult subjects to understand and learn Despite the publication of hundreds of textbooks in this field each one intended to provide an improvement over previous textbooks students of finite and discrete math continue to remain perplexed as a result of numerous subject areas that must be remembered and correlated when solving problems Various interpretations of finite and discrete math terms also contribute to the difficulties of mastering the subject In a study of finite and discrete math REA found the following basic reasons underlying the inherent difficulties of finite and discrete math No systematic rules of analysis were ever developed to follow in a step by step manner to solve typically encountered problems This results from numerous different conditions and principles involved in a problem that leads to many possible different solution methods To prescribe a set of rules for each of the possible variations would involve an enormous number of additional steps making this task more burdensome than solving the problem directly due to the expectation of much trial and error Current textbooks normally explain a given principle in a few pages written by a finite and discrete math professional who has insight into the subject matter not shared by others These explanations are often written in an abstract manner that causes confusion as to the principle's use and application Explanations then are often not sufficiently detailed or extensive enough to make the reader aware of the wide range of applications and different aspects of the principle being studied The numerous possible variations of principles and their applications are usually not discussed and it is left to the reader to discover this while doing exercises Accordingly the average student is expected to rediscover that which has long been established and practiced but not always published or adequately explained The examples typically following the explanation of a topic are too few in number and too simple to enable the student to obtain a thorough grasp of the involved principles The explanations do not provide sufficient basis to solve problems that may be assigned for homework or given on examinations Poorly solved examples such as these can be presented in abbreviated form which leaves out much explanatory material between steps and as a result requires the reader to figure out the missing information This leaves the reader with an impression that the problems and even the subject are hard to learn completely the opposite of what an example is supposed to do Poor examples are often worded in a confusing or obscure way They might not state the nature of the problem or they present a solution which appears to have no direct relation to the problem These problems usually offer an overly general discussion never revealing how or what is to be solved Many examples do not include accompanying diagrams or graphs denying the reader the exposure necessary for drawing good diagrams and graphs Such practice only strengthens understanding by simplifying and organizing finite and discrete math processes Students can learn the subject only by doing the exercises themselves and reviewing them in class obtaining experience in applying the principles with their different ramifications In doing the exercises by themselves students find that they are required to devote considerable more

time to finite and discrete math than to other subjects because they are uncertain with regard to the selection and application of the theorems and principles involved. It is also often necessary for students to discover those tricks not revealed in their texts or review books that make it possible to solve problems easily. Students must usually resort to methods of trial and error to discover these tricks; therefore, finding out that they may sometimes spend several hours to solve a single problem. When reviewing the exercises in classrooms, instructors usually request students to take turns in writing solutions on the boards and explaining them to the class. Students often find it difficult to explain in a manner that holds the interest of the class and enables the remaining students to follow the material written on the boards. The remaining students in the class are thus too occupied with copying the material off the boards to follow the professor's explanations. This book is intended to aid students in finite and discrete math overcome the difficulties described by supplying detailed illustrations of the solution methods that are usually not apparent to students. Solution methods are illustrated by problems that have been selected from those most often assigned for class work and given on examinations. The problems are arranged in order of complexity to enable students to learn and understand a particular topic by reviewing the problems in sequence. The problems are illustrated with detailed step by step explanations to save the students large amounts of time that is often needed to fill in the gaps that are usually found between steps of illustrations in textbooks or review outline books. The staff of REA considers finite and discrete math a subject that is best learned by allowing students to view the methods of analysis and solution techniques. This learning approach is similar to that practiced in various scientific laboratories, particularly in the medical fields. In using this book, students may review and study the illustrated problems at their own pace; students are not limited to the time such problems receive in the classroom. When students want to look up a particular type of problem and solution, they can readily locate it in the book by referring to the index that has been extensively prepared. It is also possible to locate a particular type of problem by glancing at just the material within the boxed portions. Each problem is numbered and surrounded by a heavy black border for speedy identification.

Applied Wave Mathematics II Arkadi Berezovski, Tarmo

Soomere, 2019-11-16. This book gathers contributions on various aspects of the theory and applications of linear and nonlinear waves and associated phenomena as well as approaches developed in a global partnership of researchers with the national Centre of Excellence in Nonlinear Studies CENS at the Department of Cybernetics of Tallinn University of Technology in Estonia. The papers chiefly focus on the role of mathematics in the analysis of wave phenomena. They highlight the complexity of related topics concerning wave generation, propagation, transformation, and impact in solids, gases, fluids, and human tissues, while also sharing insights into selected mathematical methods for the analytical and numerical treatment of complex phenomena. In addition, the contributions derive advanced mathematical models, share innovative ideas on computing, and present novel applications for a number of research fields where both linear and nonlinear wave problems play an important role. The papers are written in a tutorial style intended for non-specialist researchers and students. The

authors first describe the basics of a problem that is currently of interest in the scientific community discuss the state of the art in related research and then share their own experiences in tackling the problem Each chapter highlights the importance of applied mathematics for central issues in the study of waves and associated complex phenomena in different media The topics range from basic principles of wave mechanics up to the mathematics of Planet Earth in the broadest sense including contemporary challenges in the mathematics of society In turn the areas of application range from classic ocean wave mathematics to material science and to human nerves and tissues All contributions describe the approaches in a straightforward manner making them ideal material for educational purposes e g for courses master class lectures or seminar presentations

Mathematical Problems of the Dynamics of Incompressible Fluid on a Rotating Sphere

Yuri N. Skiba, 2017-09-21 This book presents selected mathematical problems involving the dynamics of a two dimensional viscous and ideal incompressible fluid on a rotating sphere In this case the fluid motion is completely governed by the barotropic vorticity equation BVE and the viscosity term in the vorticity equation is taken in its general form which contains the derivative of real degree of the spherical Laplace operator This work builds a bridge between basic concepts and concrete outcomes by pursuing a rich combination of theoretical analytical and numerical approaches and is recommended for specialists developing mathematical methods for application to problems in physics hydrodynamics meteorology and geophysics as well for upper undergraduate or graduate students in the areas of dynamics of incompressible fluid on a rotating sphere theory of functions on a sphere and flow stability

Mathematical and Physical Papers: Thermodynamics, cosmical and geological physics, molecular and crystalline theory, electrodynamics, 1911

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