

NUMERICAL PROBLEMS

- Q.1 Find the area of a rectangular plate having length (21.3 ± 0.2) cm and width (9.80 ± 0.10) cm:

SOLUTION:

Area of rectangular plate = Length \times width.

$$A = (21.3 \pm 0.2) \times (9.80 \pm 0.10)$$

$$A = (21.3 \times 9.80) \pm (21.3 \times 0.10) \pm (0.20 \times 9.80) \pm (0.2 \times 0.10).$$

$$= 208.76 \pm 2.13 \pm 1.96$$

$$= 208.78 \pm 4.09$$

$$= (208.8 \pm 4.1) \text{ cm}^2.$$

$$\boxed{A = (209 \pm 4) \text{ cm}^2} \text{ Ans.}$$

- Q.2 Calculate (a) the circumference of a circle of radius 3.5cm and (b) area of a circle of radius 4.65cm:

SOLUTION:

- (a) Circumference of circle

$$S = 2\pi r$$

$$S = 2 \times 3.141 \times 3.5$$

$$\boxed{S = 21.99 \text{ cm}} \text{ Ans.}$$

- (b) Area of circle

$$A = \pi r^2$$

$$= 3.141 \times (4.65)^2$$

$$= 3.141 \times 21.6225$$

$$\boxed{A = 67.89 \text{ cm}^2} \text{ Ans.}$$

- Q.4 Find the dimension of 'C' in the equation $S = Ct^2$:

SOLUTION:

The dimension of 'S' is L.

The dimension of t is T

$$\text{Then The dimension of } C = \frac{S}{t^2} = \frac{L}{T^2}$$

$$\boxed{= L T^{-2}} \text{ Ans.}$$

- Q.5 Estimate the number of liters of gasoline used by cars in Pakistan each year (consider cars in Pakistan = 500000):

DATA:

$$\text{No. of cars} = 500000 = 5 \times 10^5$$

$$\text{Average distance/year} = 16000 \text{ km}$$

$$\text{Gasoline consumption} = 6 \text{ km/litres}$$

$$\text{No. of litre of gasoline used/year} = ?$$

SOLUTION:

$$\text{Total distance covered by all cars/year} = 5 \times 10^5 \times 16000 \\ = 8 \times 10^9 \text{ km}$$

$$\text{Gasoline consumption} = 6 \text{ km/litres}$$

$$\text{Gasoline consumption} = 1/6 \text{ litres}$$

$$\text{Gasoline consumption} = 8 \times 10^9 \text{ km} = \frac{1}{6} \times 8 \times 10^9$$

$$\boxed{\text{Gasoline consumption} = 1033 \times 10^8 \text{ litres.}}$$

First Year Physics First Chapter Numerical Solves

A Loxley



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Basic Principles of Physics Applied to Earth Sciences Maurizio Mattesini, 2023-09-08 This textbook provides an introduction to physics for first year undergraduate students of geology and related disciplines such as Earth and marine sciences environmental science and geography The textbook covers all the topics traditionally included in basic physics courses emphasizing the fundamental concepts of physics to explain various geological phenomena While maintaining mathematical rigor the book uses basic and intermediate math skills to enhance comprehension One of the notable features of this book is the proposed methodology to consolidate the comprehension of physics in students of the geological sciences unlike more traditional approaches that start with a specific geological problem this textbook introduces and explains basic physics theories first which are then applied to Earth science problems The book s structure with figures and solved problems in each chapter is universally applicable serving students and professors worldwide without regional constraints

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Ramanujam,2016-04-19 Biomedical optics holds tremendous promise to deliver effective safe non or minimally invasive diagnostics and targeted customizable therapeutics Handbook of Biomedical Optics provides an in depth treatment of the field including coverage of applications for biomedical research diagnosis and therapy It introduces the theory and fundamental **Microfluidics and Nanofluidics** Clement Kleinstreuer,2013-12-04 Fluidics originated as the description of pneumatic and hydraulic control systems where fluids were employed instead of electric currents for signal transfer and processing Microfluidics and Nanofluidics Theory and Selected Applications offers an accessible broad based coverage of the basics through advanced applications of microfluidics and nanofluidics It is essential reading for upper level undergraduates and graduate students in engineering and professionals in industry **The Scaled Boundary Finite Element Method** John P. Wolf,2003-03-14 A novel computational procedure called the scaled boundary finite element method is described which combines the advantages of the finite element and boundary element methods Of the finite element method that no fundamental solution is required and thus expanding the scope of application for instance to anisotropic material without an increase in complexity and that singular integrals are avoided and that symmetry of the results is automatically satisfied Of the boundary element method that the spatial dimension is reduced by one as only the boundary is discretized with surface finite elements reducing the data preparation and computational efforts that the boundary conditions at infinity are satisfied exactly and that no approximation other than that of the surface finite elements on the boundary is introduced In addition the scaled boundary finite element method presents appealing features of its own an analytical solution inside the domain is achieved permitting for instance accurate stress intensity factors to be determined directly and no spatial discretization of certain free and fixed boundaries and interfaces between different materials is required In addition the scaled boundary finite element method combines the advantages of the analytical and numerical approaches In the directions parallel to the boundary where the behaviour is in general smooth the weighted residual approximation of finite elements applies leading to convergence in the finite element sense In the third radial direction the procedure is analytical permitting e g stress intensity factors to be determined directly based on their definition or the boundary conditions at infinity to be satisfied exactly In a nutshell the scaled boundary finite element method is a semi analytical fundamental solution less boundary element method based on finite elements The best of both worlds is achieved in two ways with respect to the analytical and numerical methods and with respect to the finite element and boundary element methods within the numerical procedures The book serves two goals Part I is an elementary text without any prerequisites a primer but which using a simple model problem still covers all aspects of the method and Part II presents a detailed derivation of the general case of statics elastodynamics and diffusion **A Course in Mathematical Methods for Physicists** Russell L. Herman,2013-12-04 Based on the author's junior level undergraduate course this introductory textbook is designed for a course in mathematical physics Focusing on the physics of oscillations and waves A Course in Mathematical Methods for Physicists helps students understand the

mathematical techniques needed for their future studies in physics It takes a bottom up approach that emphasizes physical applications of the mathematics The book offers A quick review of mathematical prerequisites proceeding to applications of differential equations and linear algebra Classroom tested explanations of complex and Fourier analysis for trigonometric and special functions Coverage of vector analysis and curvilinear coordinates for solving higher dimensional problems Sections on nonlinear dynamics variational calculus numerical solutions of differential equations and Green's functions

The Nystrom Method in Electromagnetics Mei Song Tong, Weng Cho Chew, 2020-07-06 A comprehensive step by step reference to the Nyström Method for solving Electromagnetic problems using integral equations Computational electromagnetics studies the numerical methods or techniques that solve electromagnetic problems by computer programming Currently there are mainly three numerical methods for electromagnetic problems the finite difference time domain FDTD finite element method FEM and integral equation methods IEMs In the IEMs the method of moments MoM is the most widely used method but much attention is being paid to the Nyström method as another IEM because it possesses some unique merits which the MoM lacks This book focuses on that method providing information on everything that students and professionals working in the field need to know Written by the top researchers in electromagnetics this complete reference book is a consolidation of advances made in the use of the Nyström method for solving electromagnetic integral equations It begins by introducing the fundamentals of the electromagnetic theory and computational electromagnetics before proceeding to illustrate the advantages unique to the Nyström method through rigorous worked out examples and equations Key topics include quadrature rules singularity treatment techniques applications to conducting and penetrable media multiphysics electromagnetic problems time domain integral equations inverse scattering problems and incorporation with multilevel fast multiple algorithm Systematically introduces the fundamental principles equations and advantages of the Nyström method for solving electromagnetic problems Features the unique benefits of using the Nyström method through numerical comparisons with other numerical and analytical methods Covers a broad range of application examples that will point the way for future research The Nystrom Method in Electromagnetics is ideal for graduate students senior undergraduates and researchers studying engineering electromagnetics computational methods and applied mathematics Practicing engineers and other industry professionals working in engineering electromagnetics and engineering mathematics will also find it to be incredibly helpful

An Introduction to Partial Differential Equations Yehuda Pinchover, Jacob Rubinstein, 2005-05-12 A complete introduction to partial differential equations this textbook provides a rigorous yet accessible guide to students in mathematics physics and engineering The presentation is lively and up to date paying particular emphasis to developing an appreciation of underlying mathematical theory Beginning with basic definitions properties and derivations of some basic equations of mathematical physics from basic principles the book studies first order equations classification of second order equations and the one dimensional wave equation Two chapters are devoted to the

separation of variables whilst others concentrate on a wide range of topics including elliptic theory Green's functions variational and numerical methods A rich collection of worked examples and exercises accompany the text along with a large number of illustrations and graphs to provide insight into the numerical examples Solutions to selected exercises are included for students whilst extended solution sets are available to lecturers from solutions.cambridge.org

Process Modeling in Composites Manufacturing Suresh G. Advani, E. Murat Sozer, 2010-07-14 There is a wealth of literature on modeling and simulation of polymer composite manufacturing processes However existing books neglect to provide a systematic explanation of how to formulate and apply science based models in polymer composite manufacturing processes Process Modeling in Composites Manufacturing Second Edition provides tangible models **Physics Briefs**, 1991 *The Art and Science of Rotating Field Machines Design: A Practical Approach* Vlado Ostović, 2016-11-23 This book highlights procedures utilized by the design departments of leading global manufacturers offering readers essential insights into the electromagnetic and thermal design of rotating field induction and synchronous electric machines Further it details the physics of the key phenomena involved in the machines operation conducts a thorough analysis and synthesis of polyphase windings and presents the tools and methods used in the evaluation of winding performance The book develops and solves the machines magnetic circuits and determines their electromagnetic forces and torques Special attention is paid to thermal problems in electrical machines along with fluid flow computations With a clear emphasis on the practical aspects of electric machine design and synthesis the author applies his nearly 40 years of professional experience with electric machine manufacturers both as an employee and consultant to provide readers with the tools they need to determine fluid flow parameters and compute temperature distributions

Higher Mathematics for Students of Chemistry and Physics Joseph William Mellor, 1902 *Matrix Analysis and Applications* Xian-Da Zhang, 2017-10-05 The theory methods and applications of matrix analysis are presented here in a novel theoretical framework

Integral Equations and Iteration Methods in Electromagnetic Scattering A. B. Samokhin, 2013-03-12 No detailed description available for Integral Equations and Iteration Methods in Electromagnetic Scattering

Introduction to Chemical Transport in the Environment John S. Gulliver, 2007-01-15 This is a textbook for courses and independent study in environmental and chemical engineering as well as in many other disciplines concerned with transport and diffusion of all manner of chemicals Estimating the transport and fate of chemicals released into the environment is an interesting and challenging task The global environment is large on the chemical transport and fate scale This text applies the mathematics of diffusion turbulent diffusion and dispersion to the atmosphere lakes rivers groundwater and the ocean as well as transport between these media The required theory is explained as a solution technique to solve the case studies and example problems A large portion of the book is dedicated to examples and case studies from which the important principles are derived

Introduction to Partial Differential Equations Peter J. Olver, 2013-11-08 This textbook is designed for a one year course covering the fundamentals

of partial differential equations geared towards advanced undergraduates and beginning graduate students in mathematics science engineering and elsewhere The exposition carefully balances solution techniques mathematical rigor and significant applications all illustrated by numerous examples Extensive exercise sets appear at the end of almost every subsection and include straightforward computational problems to develop and reinforce new techniques and results details on theoretical developments and proofs challenging projects both computational and conceptual and supplementary material that motivates the student to delve further into the subject No previous experience with the subject of partial differential equations or Fourier theory is assumed the main prerequisites being undergraduate calculus both one and multi variable ordinary differential equations and basic linear algebra While the classical topics of separation of variables Fourier analysis boundary value problems Green s functions and special functions continue to form the core of an introductory course the inclusion of nonlinear equations shock wave dynamics symmetry and similarity the Maximum Principle financial models dispersion and solutions Huygens Principle quantum mechanical systems and more make this text well attuned to recent developments and trends in this active field of contemporary research Numerical approximation schemes are an important component of any introductory course and the text covers the two most basic approaches finite differences and finite elements

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