

## MATH0360 – Introduction to Applied Mathematics: Examples 4

### Assessment Problems

Solutions to these problems are to be submitted in Gradescope before 4 November.

Please show all the details of your work.

1. Let  $\underline{a} = \underline{i} - 3\underline{j} + \underline{k}$  and  $\underline{b} = 2\underline{i} - \underline{j} + 2\underline{k}$ .

(a) Calculate  $\underline{b} \bullet \underline{a}$  and the angle between the vectors  $\underline{a}$  and  $\underline{b}$ .

(b) Find the projection of  $\underline{a}$  in the direction of  $\underline{b}$ .

(c) Find  $\underline{c} = \underline{a} - (\underline{a} \bullet \underline{b}) \underline{b}$ . Find out if  $\underline{b}$  is perpendicular to  $\underline{c}$  or not.

2. Calculate the following vector products:

$$(2\underline{i} + 4\underline{j} - 3\underline{k}) \times (3\underline{i} + 5\underline{j} + 2\underline{k}) \quad \text{and} \quad (2\underline{i} + 3\underline{j} + 5\underline{k}) \times (3\underline{i} - 7\underline{k})$$

3. Find a unit vector that is perpendicular to both  $3\underline{i} - \underline{j} + 6\underline{k}$  and  $\underline{i} + 2\underline{j} + 7\underline{k}$ .

4. If  $\underline{a}$  and  $\underline{b}$  are non-parallel vectors, show that:

$$(\underline{a} + \underline{b}) \times (\underline{b} - \underline{a}) = 2 \underline{a} \times \underline{b}.$$

5. Let  $\underline{p} = 5\underline{i} - 3\underline{j} + \underline{k}$  and  $\underline{q} = -2\underline{i} - 5\underline{j} + 2\underline{k}$ .

(a) Calculate  $\underline{p} \bullet \underline{q}$  and hence find  $\cos(\theta)$ , where  $\theta$  is the angle between  $\underline{p}$  and  $\underline{q}$ .

(b) Calculate  $\underline{q} \times \underline{p}$  and  $|\underline{q} \times \underline{p}|$  and hence find the value of  $\sin(\theta)$ .

(c) Hence verify that:

$$(\underline{p} \bullet \underline{q})^2 + |\underline{p} \times \underline{q}|^2 = |\underline{p}|^2 |\underline{q}|^2.$$

# Introduction To Applied Mathematics Solution

**D Keegan**



## **Introduction To Applied Mathematics Solution:**

**Introduction to the Foundations of Applied Mathematics** Mark H. Holmes, 2019-10-02 The objective of this textbook is the construction analysis and interpretation of mathematical models to help us understand the world we live in Rather than follow a case study approach it develops the mathematical and physical ideas that are fundamental in understanding contemporary problems in science and engineering Science evolves and this means that the problems of current interest continually change What does not change as quickly is the approach used to derive the relevant mathematical models and the methods used to analyze the models Consequently this book is written in such a way as to establish the mathematical ideas underlying model development independently of a specific application This does not mean applications are not considered they are and connections with experiment are a staple of this book The book as well as the individual chapters is written in such a way that the material becomes more sophisticated as you progress This provides some flexibility in how the book is used allowing consideration for the breadth and depth of the material covered Moreover there are a wide spectrum of exercises and detailed illustrations that significantly enrich the material Students and researchers interested in mathematical modelling in mathematics physics engineering and the applied sciences will find this text useful The material and topics have been updated to include recent developments in mathematical modeling The exercises have also been expanded to include these changes as well as enhance those from the first edition Review of first edition The goal of this book is to introduce the mathematical tools needed for analyzing and deriving mathematical models Holmes is able to integrate the theory with application in a very nice way providing an excellent book on applied mathematics One of the best features of the book is the abundant number of exercises found at the end of each chapter I think this is a great book and I recommend it for scholarly purposes by students teachers and researchers Joe Latulippe The Mathematical Association of America December 2009

*Introduction to Applied Mathematics* Gilbert Strang, 1986 A comprehensive introduction to applied mathematics

**Calculus: an Introduction to Applied Mathematics** Harvey Philip Greenspan, David J. Benney, 1973 **Introduction to Special Functions for Applied Mathematics** Daniele Ritelli, 2025-09-25 Introduction to Special Functions for Applied Mathematics introduces readers to the topic of special functions with a particular focus on applications Designed to build swiftly from the more basic special functions towards more advanced material the book is ideally suited for an intensive one semester course Complemented with various solved examples and exercises to support students and instructors the book can be used for both self study and directed learning Features Suitable for graduate level students or beginning PhD students in mathematics physics statistics and economics No previous background in complex analysis required Numerous solved examples and exercises *Applied Mathematics In Hydraulic Engineering: An Introduction To Nonlinear Differential Equations* Kazumasa Mizumura, 2011-05-26 Applied Mathematics in Hydraulic Engineering is an excellent teaching guide and reference to treating nonlinear mathematical problems in hydraulic hydrologic and coastal engineering Undergraduates

studying civil and coastal engineering as well as analysis and differential equations are started off applying calculus to the treatment of nonlinear partial differential equations before given the chance to practice real life problems related to the fields This textbook is not only a good source of teaching materials for teachers or instructors but is also useful as a comprehensive resource of mathematical tools to researchers

### **Princeton Companion to Applied Mathematics**

Nicholas J. Higham, Mark R. Dennis, Paul Glendinning, Paul A. Martin, Fadil Santosa, Jared Tanner, 2015-09-09 The must have compendium on applied mathematics This is the most authoritative and accessible single volume reference book on applied mathematics Featuring numerous entries by leading experts and organized thematically it introduces readers to applied mathematics and its uses explains key concepts describes important equations laws and functions looks at exciting areas of research covers modeling and simulation explores areas of application and more Modeled on the popular Princeton Companion to Mathematics this volume is an indispensable resource for undergraduate and graduate students researchers and practitioners in other disciplines seeking a user friendly reference book on applied mathematics Features nearly 200 entries organized thematically and written by an international team of distinguished contributors Presents the major ideas and branches of applied mathematics in a clear and accessible way Explains important mathematical concepts methods equations and applications Introduces the language of applied mathematics and the goals of applied mathematical research Gives a wide range of examples of mathematical modeling Covers continuum mechanics dynamical systems numerical analysis discrete and combinatorial mathematics mathematical physics and much more Explores the connections between applied mathematics and other disciplines Includes suggestions for further reading cross references and a comprehensive index

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Alexander H-d Cheng, Ching-shyang Chen, Andreas Karageorghis, 2025-03-11 Over the past two decades the method of fundamental solutions MFS has attracted great attention and has been used extensively for the solution of scientific and engineering problems The MFS is a boundary meshless collocation method which has evolved from the boundary element method In it the approximate solution is expressed as a linear combination of fundamental solutions of the operator in the governing partial differential equation One of the main attractions of the MFS is the simplicity with which it can be applied to the solution of boundary value problems in complex geometries in two and three dimensions The method is also known by many different names in the literature such as the charge simulation method the de singularization method the virtual boundary element method etc Despite its effectiveness the original version of the MFS is confined to solving boundary value problems governed by homogeneous partial differential equations To address this limitation we introduce various types of particular solutions to extend the method to solving general inhomogeneous boundary value problems employing the method of particular solutions This book consists of two parts Part I aims to provide theoretical support for beginners In the spirit of reproducible research and to facilitate the understanding of the method and its implementation several MATLAB codes have been included in Part II This book is highly

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#### **Quarterly**

**Journal of Pure and Applied Mathematics** James Joseph Sylvester, James Whitbread Lee Glaisher, 1882 *How to Solve Applied Mathematics Problems* B. L. Moiseiwitsch, 2011-07-19 The ability to solve problems in applied mathematics depends upon understanding concepts rather than memorizing formulas or rote learning This volume bridges the gap between lectures and practical applications offering students of mathematics engineering and physics the chance to practice solving problems from a wide variety of fields The two part treatment begins with chapters on vector algebra kinematics dynamics of a particle vector field theory Newtonian gravitation electricity and magnetism fluid dynamics and classical dynamics The second part examines Fourier series and Fourier and Laplace transforms integral equations wave motion heat conduction tensor analysis special and general relativity quantum theory and variational principles The final chapter contains problems associated with many of the preceding chapters and expresses them in terms of the calculus of variations

**Applied Mathematics Reviews** George A. Anastassiou, 2000 Applied mathematics connects the mathematical theory to the reality by

solving real world problems and shows the power of the science of mathematics greatly improving our lives Therefore it plays a very active and central role in the scientific world This volume contains 14 high quality survey articles incorporating original results and describing the main research activities of contemporary applied mathematics written by top people in the field The articles have been written in review style so that the researcher can have a quick and thorough view of what is happening in the main subfields of applied mathematics

**Computation and Applied Mathematics**, 1998

**War Stories from Applied Math** Robert Fraga, 2007 These projects are adaptations of transcripts made at a workshop at Marquette University in Milwaukee WI in 1996 This workshop brought together four mathematicians representatives from industry and an audience of mathematicians interested in trying out the ideas presented to them

Computational Solution of Nonlinear Systems of Equations Eugene L. Allgower, Kurt Georg, 1990-04-03 Nonlinear equations arise in essentially every branch of modern science engineering and mathematics However in only a very few special cases is it possible to obtain useful solutions to nonlinear equations via analytical calculations As a result many scientists resort to computational methods This book contains the proceedings of the Joint AMS SIAM Summer Seminar Computational Solution of Nonlinear Systems of Equations held in July 1988 at Colorado State University The aim of the book is to give a wide ranging survey of essentially all of the methods which comprise currently active areas of research in the computational solution of systems of nonlinear equations A number of entry level survey papers were solicited and a series of test problems has been collected in an appendix Most of the articles are accessible to students who have had a course in numerical analysis

**Computation and Applied Mathematics**, 2001

**Solving Applied Mathematical Problems with MATLAB**, 2008-11-03 This textbook presents a variety of applied mathematics topics in science and engineering with an emphasis on problem solving techniques using MATLAB The authors provide a general overview of the MATLAB language and its graphics abilities before delving into problem solving making the book useful for readers without prior MATLAB experi

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Applied Mathematics Reviews, Volume 1 George A Anastassiou, 2000-06-09 Applied mathematics connects the mathematical theory to the reality by solving real world problems and shows the power of the science of mathematics greatly



improving our lives Therefore it plays a very active and central role in the scientific world This volume contains 14 high quality survey articles incorporating original results and describing the main research activities of contemporary applied mathematics written by top people in the field The articles have been written in review style so that the researcher can have a quick and thorough view of what is happening in the main subfields of applied mathematics

*Partial Differential Equations of Applied Mathematics* Erich Zauderer, 2011-10-24 This new edition features the latest tools for modeling characterizing and solving partial differential equations The Third Edition of this classic text offers a comprehensive guide to modeling characterizing and solving partial differential equations PDEs The author provides all the theory and tools necessary to solve problems via exact approximate and numerical methods The Third Edition retains all the hallmarks of its previous editions including an emphasis on practical applications clear writing style and logical organization and extensive use of real world examples Among the new and revised material the book features A new section at the end of each original chapter exhibiting the use of specially constructed Maple procedures that solve PDEs via many of the methods presented in the chapters The results can be evaluated numerically or displayed graphically Two new chapters that present finite difference and finite element methods for the solution of PDEs Newly constructed Maple procedures are provided and used to carry out each of these methods All the numerical results can be displayed graphically A related FTP site that includes all the Maple code used in the text New exercises in each chapter and answers to many of the exercises are provided via the FTP site A supplementary Instructor's Solutions Manual is available The book begins with a demonstration of how the three basic types of equations parabolic hyperbolic and elliptic can be derived from random walk models It then covers an exceptionally broad range of topics including questions of stability analysis of singularities transform methods Green's functions and perturbation and asymptotic treatments Approximation methods for simplifying complicated problems and solutions are described and linear and nonlinear problems not easily solved by standard methods are examined in depth Examples from the fields of engineering and physical sciences are used liberally throughout the text to help illustrate how theory and techniques are applied to actual problems With its extensive use of examples and exercises this text is recommended for advanced undergraduates and graduate students in engineering science and applied mathematics as well as professionals in any of these fields It is possible to use the text as in the past without use of the new Maple material

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