Extension to 2002 HSC Ext. 2 Q8a

(v) Use the identity $\cot^2 \theta = \operatorname{cosec}^2 \theta - 1$ and the result of Question 8 (a) (iii) to prove that

$$\operatorname{cosec}^2 \left(\frac{\pi}{2m+1} \right) + \operatorname{cosec}^2 \left(\frac{2\pi}{2m+1} \right) + \cdots + \operatorname{cosec}^2 \left(\frac{m\pi}{2m+1} \right) = \frac{2m(m+1)}{3}$$

(vi) Use the fact that $\operatorname{cosec} \theta > \frac{1}{\theta}$ for $0 < \theta < \frac{\pi}{2}$ to show that:

$$\left(\frac{1}{1^2} + \frac{1}{2^2} + \frac{1}{3^2} + \cdots + \frac{1}{m^2} \right) \frac{(2m+1)^2}{4m(m+1)} < \frac{\pi^2}{6}$$

(vii) Deduce that $\frac{1}{(2m+1)^2} < 1 - \frac{6}{\pi^2} \left(\frac{1}{1^2} + \frac{1}{2^2} + \frac{1}{3^2} + \cdots + \frac{1}{m^2} \right) < \frac{6m+1}{(2m+1)^2}$

(viii) Taking the limit as $m \to \infty$ deduce that $\frac{1}{1^2} + \frac{1}{2^2} + \frac{1}{3^2} + \cdots = \frac{\pi^2}{6}$

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Cambridge HSC Study Guide Mathematics Extension 1 Denise Arnold,Graham Arnold,2004 The Cambridge HSC Mathematics Extension Study Guide is a comprehensive summary of all topics of both the HSC and preliminary NSW Mathematics Extension 1 course Features include Fully worked examples in each chaper linked to syllabus outcomes Exercises with fully worked solutions Further exercises with outline worked solutions Further exercise containing questions for Extension 2 standard Examination checklist 4 Practice Papers with fully worked solutions   *Arnold's Problems* Vladimir I. Arnold,2004-06-24 Vladimir Arnold is one of the most outstanding mathematicians of our time Many of these problems are at the front line of current research   **The Numerical Solution of Integral Equations of the Second Kind** Kendall E. Atkinson,1997-06-28 This book provides an extensive introduction to the numerical solution of a large class of integral equations   **ARNOLD: Swimming Against the Tide** Boris A. Khesin,Serge L. Tabachnikov,2014-09-10 Vladimir Arnold an eminent mathematician of our time is known both for his mathematical results which are many and prominent and for his strong opinions often expressed in an uncompromising and provoking manner His dictum that Mathematics is a part of physics where experiments are cheap is well known This book consists of two parts selected articles by and an interview with Vladimir Arnold and a collection of articles about him written by his friends colleagues and students The book is generously illustrated by a large collection of photographs some never before published The book presents many a facet of this extraordinary mathematician and man from his mathematical discoveries to his daredevil outdoor adventures   **The Exponential Solution for the Homogeneous Linear Differential Equation of the Second Order** Jean Mariani,1961 A liinear second order differential equation may be considered as a 2 X 2 system of first order equations The question is whether the solutions of this system can be written in the form exp Omega is a 2 X2 matrix A motivation for the problem is given based on the question of defining lump constants for an inhomogenous layer Conditions necessary for the existence of Omega are given for a variety of circumstances   **The Arnoldfest** Vladimir Igorevich Arnol′d,1999 This volume presents articles originating from invited talks at an exciting international conference held at The Fields Institute in Toronto celebrating the sixtieth birthday of the renowned mathematician Vladimir Arnold Experts from the world over including several from Arnold s school gave illuminating talks and lively poster sessions The presentations focused on Arnold s main areas of interest singularity theory the theory of curves symmetry groups dynamical systems mechanics and related areas of mathematics The book begins with notes of three lectures by V Arnold given in the framework of the Institute s Distinguished Lecturer program The topics of the lectures are 1 From Hilbert s Superposition Problem to Dynamical Systems 2 Symplectization Complexification and Mathematical Trinities 3 Topological Problems in Wave Propagation Theory and Topological Economy Principle in Algebraic Geometry Arnold s three articles include insightful comments on Russian and

Western mathematics and science Complementing the first is Jurgen Moser s Recollections concerning some of the history of KAM theory **Proofs in Competition Math: Volume 2** Alexander Toller,Freya Edholm,Dennis Chen, **Infinite Dimensional Morse Theory and Multiple Solution Problems** K.C. Chang,2012-12-06 The book is based on my lecture notes Infinite dimensional Morse theory and its applications 1985 Montreal and one semester of graduate lectures delivered at the University of Wisconsin Madison 1987 Since the aim of this monograph is to give a unified account of the topics in critical point theory a considerable amount of new materials has been added Some of them have never been published previously The book is of interest both to researchers following the development of new results and to people seeking an introduction into this theory The main results are designed to be as self contained as possible And for the reader s convenience some preliminary background information has been organized The following people deserve special thanks for their direct roles in help ing to prepare this book Prof L Nirenberg who first introduced me to this field ten years ago when I visited the Courant Institute of Math Sciences Prof A Granas who invited me to give a series of lectures at SMS 1983 Montreal and then the above notes as the primary version of a part of the manuscript which were published in the SMS collection Prof P Rabinowitz who provided much needed encouragement during the academic semester and invited me to teach a semester graduate course after which the lecture notes became the second version of parts of this book Professors A Bahri and H Brezis who suggested the publication of the book in the Birkhiiuser series **Mathematics of Complexity and Dynamical Systems** Robert A. Meyers,2011-10-05 Mathematics of Complexity and Dynamical Systems is an authoritative reference to the basic tools and concepts of complexity systems theory and dynamical systems from the perspective of pure and applied mathematics Complex systems are systems that comprise many interacting parts with the ability to generate a new quality of collective behavior through self organization e g the spontaneous formation of temporal spatial or functional structures These systems are often characterized by extreme sensitivity to initial conditions as well as emergent behavior that are not readily predictable or even completely deterministic The more than 100 entries in this wide ranging single source work provide a comprehensive explication of the theory and applications of mathematical complexity covering ergodic theory fractals and multifractals dynamical systems perturbation theory solitons systems and control theory and related topics Mathematics of Complexity and Dynamical Systems is an essential reference for all those interested in mathematical complexity from undergraduate and graduate students up through professional researchers The American Mathematical Monthly ,1921 Includes section Recent publications Numerical Solution of Stochastic Differential Equations with Jumps in Finance Eckhard Platen,Nicola Bruti-Liberati,2010-07-23 In financial and actuarial modeling and other areas of application stochastic differential equations with jumps have been employed to describe the dynamics of various state variables The numerical solution of such equations is more complex than that of those only driven by Wiener processes described in Kloeden Platen Numerical Solution of Stochastic Differential Equations 1992 The present monograph builds on the above

mentioned work and provides an introduction to stochastic differential equations with jumps in both theory and application emphasizing the numerical methods needed to solve such equations It presents many new results on higher order methods for scenario and Monte Carlo simulation including implicit predictor corrector extrapolation Markov chain and variance reduction methods stressing the importance of their numerical stability Furthermore it includes chapters on exact simulation estimation and filtering Besides serving as a basic text on quantitative methods it offers ready access to a large number of potential research problems in an area that is widely applicable and rapidly expanding Finance is chosen as the area of application because much of the recent research on stochastic numerical methods has been driven by challenges in quantitative finance Moreover the volume introduces readers to the modern benchmark approach that provides a general framework for modeling in finance and insurance beyond the standard risk neutral approach It requires undergraduate background in mathematical or quantitative methods is accessible to a broad readership including those who are only seeking numerical recipes and includes exercises that help the reader develop a deeper understanding of the underlying mathematics **Introduction to Applied Nonlinear Dynamical Systems and Chaos** Stephen Wiggins,2006-04-18 This introduction to applied nonlinear dynamics and chaos places emphasis on teaching the techniques and ideas that will enable students to take specific dynamical systems and obtain some quantitative information about their behavior The new edition has been updated and extended throughout and contains a detailed glossary of terms From the reviews Will serve as one of the most eminent introductions to the geometric theory of dynamical systems Monatshefte f r Mathematik **Trial and Error Predicates and the Solution to a Problem of Mostowski's** Hilary Putnam,1961 It is proved that every consistent formula of quantification theory has a model in Mostowski s field of set **A Math Primer for Engineers** C.W. Cryer,2014-03-04 Mathematics and engineering are inevitably interrelated and this interaction will steadily increase as the use of mathematical modelling grows Although mathematicians and engineers often misunderstand one another their basic approach is quite similar as is the historical development of their respective disciplines The purpose of this Math Primer is to provide a brief introduction to those parts of mathematics which are or could be useful in engineering especially bioengineering The aim is to summarize the ideas covered in each subject area without going into exhaustive detail Formulas and equations have not been avoided but every effort has been made to keep them simple in the hope of persuading readers that they are not only useful but also accessible The wide range of topics covered includes introductory material such as numbers and sequences geometry in two and three dimensions linear algebra and the calculus Building on these foundations linear spaces tensor analysis and Fourier analysis are introduced All these concepts are used to solve problems for ordinary and partial differential equations Illustrative applications are taken from a variety of engineering disciplines and the choice of a suitable model is considered from the point of view of both the mathematician and the engineer This book will be of interest to engineers and bioengineers looking for the mathematical means to help further their work and it will offer readers

a glimpse of many ideas which may spark their interest   *Proceedings of the National Conference on Mathematical and Computational Models. ,*2001   **Handbook of Mathematical Fluid Dynamics** S. Friedlander,D. Serre,2003-03-27 The Handbook of Mathematical Fluid Dynamics is a compendium of essays that provides a survey of the major topics in the subject Each article traces developments surveys the results of the past decade discusses the current state of knowledge and presents major future directions and open problems Extensive bibliographic material is provided The book is intended to be useful both to experts in the field and to mathematicians and other scientists who wish to learn about or begin research in mathematical fluid dynamics The Handbook illuminates an exciting subject that involves rigorous mathematical theory applied to an important physical problem namely the motion of fluids   <u>Numerical Solution of Algebraic Riccati Equations</u> Dario A. Bini,Bruno Iannazzo,Beatrice Meini,2012-03-31 This treatment of the basic theory of algebraic Riccati equations describes the classical as well as the more advanced algorithms for their solution in a manner that is accessible to both practitioners and scholars It is the first book in which nonsymmetric algebraic Riccati equations are treated in a clear and systematic way Some proofs of theoretical results have been simplified and a unified notation has been adopted Readers will find a unified discussion of doubling algorithms which are effective in solving algebraic Riccati equations as well as a detailed description of all classical and advanced algorithms for solving algebraic Riccati equations and their MATLAB codes This will help the reader gain an understanding of the computational issues and provide ready to use implementation of the different solution techniques   *Fifth International Conference on Mathematical and Numerical Aspects of Wave Propagation* Alfredo Berm?dez,2000-01-01 This conference was held in Santiago de Compostela Spain July 10 14 2000 This volume contains papers presented at the conference covering a broad range of topics in theoretical and applied wave propagation in the general areas of acoustics electromagnetism and elasticity Both direct and inverse problems are well represented This volume along with the three previous ones presents a state of the art primer for research in wave propagation The conference is conducted by the Institut National de Recherche en Informatique et en Automatique with the cooperation of SIAM   **Integrable Hamiltonian Hierarchies** Vladimir Gerdjikov,Gaetano Vilasi,Alexandar Borisov Yanovski,2008-06-02 This book presents a detailed derivation of the spectral properties of the Recursion Operators allowing one to derive all the fundamental properties of the soliton equations and to study their hierarchies   *Mathematical Theory of Incompressible Nonviscous Fluids* Carlo Marchioro,Mario Pulvirenti,2012-12-06 Fluid dynamics is an ancient science incredibly alive today Modern technol ogy and new needs require a deeper knowledge of the behavior of real fluids and new discoveries or steps forward pose quite often challenging and diffi cult new mathematical oblems In this framework a special role is played by incompressible nonviscous sometimes called perfect flows This is a mathematical model consisting essentially of an evolution equation the Euler equation for the velocity field of fluids Such an equation which is nothing other than the Newton laws plus some additional structural hypo theses was discovered by Euler in 1755 and although it is more than two centuries old many

fundamental questions concerning its solutions are still open In particular it is not known whether the solutions for reasonably general initial conditions develop singularities in a finite time and very little is known about the long term behavior of smooth solutions These and other basic problems are still open and this is one of the reasons why the mathe matical theory of perfect flows is far from being completed Incompressible flows have been attached by many distinguished mathe maticians with a large variety of mathematical techniques so that today this field constitutes a very rich and stimulating part of applied mathematics

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