

ZIMBABWE SCHOOL EXAMINATIONS COUNCIL (ZIMSEC)

ZIMBABWE JUNIOR CERTIFICATE EXAMINATION, 1998

MATHEMATICS PAPER II

0002/2

Date: Tuesday, 27 October 1998 Time: 2 hours 30 minutes

Answer all questions in Section A and all questions in Section B.

ALL questions in SECTION A carry 5 marks each.

ALL questions in SECTION B carry 10 marks each.

To obtain full marks for any question ALL WORKING must be shown.

DO NOT MEASURE FROM GIVEN DIAGRAM.

ELECTRONIC CALCULATORS AND SLIDE RULES MUST NOT BE USED IN THE EXAMINATION.

LEAVE BLANK LINES BETWEEN SUMS AND RULE OFF EACH QUESTION.

Graph paper provided is for question 15.

For π use $\frac{22}{7}$.

This question paper comprises 6 printed pages.

Zjc Text Maths

John A. Burns



Zjc Text Maths :

Zimbabwe National Bibliography, 1998 *Zimbabwe Books in Print*, 1998 **African Books in Print**, 1993

Forthcoming Books Rose Arny, 1993-04 **Super prima [-secunda] Infortiati Ioannes de Imola.** .. Giovanni : da Imola, 1547 Foundation Mathematics for the Physical Sciences K. F. Riley, M. P. Hobson, 2011-03-31 This tutorial style textbook develops the basic mathematical tools needed by first and second year undergraduates to solve problems in the physical sciences. Students gain hands on experience through hundreds of worked examples, self test questions and homework problems. Each chapter includes a summary of the main results, definitions and formulae. Over 270 worked examples show how to put the tools into practice. Around 170 self test questions in the footnotes and 300 end of section exercises give students an instant check of their understanding. More than 450 end of chapter problems allow students to put what they have just learned into practice. Hints and outline answers to the odd numbered problems are given at the end of each chapter. Complete solutions to these problems can be found in the accompanying Student Solutions Manual. Fully worked solutions to all problems, password protected for instructors, are available at www.cambridge.org/foundation.

Mathematics for the Physical Sciences James B. Seaborn, 2012-12-06 This book is intended to provide a mathematical bridge from a general physics course to intermediate level courses in classical mechanics, electricity and magnetism and quantum mechanics. The book begins with a short review of a few topics that should be familiar to the student from a general physics course. These examples will be used throughout the rest of the book to provide physical contexts for introducing the mathematical applications. The next two chapters are devoted to making the student familiar with vector operations in algebra and calculus. Students will have already become acquainted with vectors in the general physics course. The notion of magnetic flux provides a physical connection with the integral theorems of vector calculus. A very short chapter on complex numbers is sufficient to supply the needed background for the minor role played by complex numbers in the remainder of the text. Mathematical applications in intermediate and advanced undergraduate courses in physics are often in the form of ordinary or partial differential equations. Ordinary differential equations are introduced in Chapter 5. The ubiquitous simple harmonic oscillator is used to illustrate the series method of solving an ordinary linear second order differential equation. The one dimensional time dependent Schrödinger equation provides an illustration for solving a partial differential equation by the method of separation of variables in Chapter 6. *TeeJay 5-14 Mathematics Level C Textbook* Tom Strang, James Geddes, James Cairns, 2005-09-12 **A Course in Mathematics for Students of Physics: Volume 2** Paul

Bamberg, Shlomo Sternberg, 1991-08-30 This textbook, available in two volumes, has been developed from a course taught at Harvard over the last decade. The course covers principally the theory and physical applications of linear algebra and of the calculus of several variables, particularly the exterior calculus. The authors adopt the spiral method of teaching, covering the same topic several times at increasing levels of sophistication and range of application. Thus the reader develops a deep

intuitive understanding of the subject as a whole and an appreciation of the natural progression of ideas Topics covered include many items previously dealt with at a much more advanced level such as algebraic topology introduced via the analysis of electrical networks exterior calculus Lie derivatives and star operators which are applied to Maxwell's equations and optics This then is a text which breaks new ground in presenting and applying sophisticated mathematics in an elementary setting Any student interpreted in the widest sense with an interest in physics and mathematics will gain from its study

Mathematical Methods Sadri Hassani, 2008-10-27 Intended to follow the usual introductory physics courses this book has the unique feature of addressing the mathematical needs of sophomores and juniors in physics engineering and other related fields Many original lucid and relevant examples from the physical sciences problems at the ends of chapters and boxes to emphasize important concepts help guide the student through the material Beginning with reviews of vector algebra and differential and integral calculus the book continues with infinite series vector analysis complex algebra and analysis ordinary and partial differential equations Discussions of numerical analysis nonlinear dynamics and chaos and the Dirac delta function provide an introduction to modern topics in mathematical physics This new edition has been made more user friendly through organization into convenient shorter chapters Also it includes an entirely new section on Probability and plenty of new material on tensors and integral transforms

A Course in Mathematics for Students of Physics: Paul Bamberg, Shlomo Sternberg, 1990-05-25 This textbook available in two volumes has been developed from a course taught at Harvard over the last decade The course covers principally the theory and physical applications of linear algebra and of the calculus of several variables particularly the exterior calculus The authors adopt the spiral method of teaching covering the same topic several times at increasing levels of sophistication and range of application Thus the reader develops a deep intuitive understanding of the subject as a whole and an appreciation of the natural progression of ideas Topics covered include many items previously dealt with at a much more advanced level such as algebraic topology introduced via the analysis of electrical networks exterior calculus Lie derivatives and star operators which are applied to Maxwell's equations and optics This then is a text which breaks new ground in presenting and applying sophisticated mathematics in an elementary setting Any student interpreted in the widest sense with an interest in physics and mathematics will gain from its study

Complex Numbers I The Mathematics Foundation Course Team (Walton Hall), 1971 **CRC Concise Encyclopedia of Mathematics** Eric W. Weisstein, 2002-12-12 Upon publication the first edition of the CRC Concise Encyclopedia of Mathematics received overwhelming accolades for its unparalleled scope readability and utility It soon took its place among the top selling books in the history of Chapman Hall CRC and its popularity continues unabated Yet also unabated has been the demand for **Mathematical Methods with Applications to Problems in the Physical Sciences** Ted Clay Bradbury, 1984 **Calculus of Variations** Izrail Moiseevitch Gelfand, Sergei Vasil'evich Fomin, Richard A.

Silverman, 2000-01-01 Fresh lively text serves as a modern introduction to the subject with applications to the mechanics of

systems with a finite number of degrees of freedom Ideal for math and physics students **Text & Tests** C O. D.

Morris,1988 Introduction to the Calculus of Variations and Control with Modern Applications John A. Burns,2013-08-28

Introduction to the Calculus of Variations and Control with Modern Applications provides the fundamental background required to develop rigorous necessary conditions that are the starting points for theoretical and numerical approaches to modern variational calculus and control problems The book also presents some classical sufficient conditions and discusses the importance of distinguishing between the necessary and sufficient conditions In the first part of the text the author develops the calculus of variations and provides complete proofs of the main results He explains how the ideas behind the proofs are essential to the development of modern optimization and control theory Focusing on optimal control problems the second part shows how optimal control is a natural extension of the classical calculus of variations to more complex problems By emphasizing the basic ideas and their mathematical development this book gives you the foundation to use these mathematical tools to then tackle new problems The text moves from simple to more complex problems allowing you to see how the fundamental theory can be modified to address more difficult and advanced challenges This approach helps you understand how to deal with future problems and applications in a realistic work environment **A Short Book on Long**

Sums Fernando Q. Gouvêa,2023-12-07 This concise textbook introduces calculus students to power series through an informal and captivating narrative that avoids formal proofs but emphasizes understanding the fundamental ideas Power series and infinite series in general are a fundamental tool of pure and applied mathematics The problems focus on ideas applications and creative thinking instead of being repetitive and procedural Calculus is about functions so the book turns on two fundamental ideas using polynomials to approximate a function and representing a function in terms of simpler functions The derivative is reinterpreted in terms of linear approximations which then leads to Taylor polynomials and the question of convergence Enough of the theory of convergence is developed to allow a more complete understanding of power series and their applications A final chapter looks at the distant horizon and discusses other kinds of series representations SageMath a free open source mathematics software system is used throughout to do computations provide examples and create many graphs While most problems do not require SageMath students are encouraged to use it where appropriate An instructor's guide with solutions to all the problems is available The book is intended as a supplementary textbook for calculus courses lecturers and instructors will find innovative and engaging ways to teach this topic The informal and conversational tone make the book useful to any student seeking to understand this essential aspect of analysis Equations and Inequalities Jiri Herman,Radan Kucera,Jaromir Simsa,2000-03-23 A look at solving problems in three areas of classical elementary mathematics equations and systems of equations of various kinds algebraic inequalities and elementary number theory in particular divisibility and diophantine equations In each topic brief theoretical discussions are followed by carefully worked out examples of increasing difficulty and by exercises which range from routine to rather more challenging problems While it

emphasizes some methods that are not usually covered in beginning university courses the book nevertheless teaches techniques and skills which are useful beyond the specific topics covered here With approximately 330 examples and 760 exercises

A Course in Mathematics, for Students of Engineering and Applied Science Frederick Shenstone Woods, 1907

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