

ZIMBABWE SCHOOL EXAMINATIONS COUNCIL General Certificate of Education Ordinary Level

MATHEMATICS

4008/1

PAPER 1

JUNE 2014 SESSION

2 hours 30 minutes

Candidates answer on the question paper.

Additional materials:

Geometrical instruments

Allow candidates 5 minutes to count pages before the examination.

TIME 2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES

Write your name. Centre number and candidate number in the spaces at the top of this page and your Centre number and Candidate number on the top right corner of every page of this paper.

Answer all questions.

Check that all the pages are in the booklet and ask the invigilator for a replacement if there are duplicate or missing pages.

Write your answers in the spaces provided on the question paper using black or blue pens. If working is needed for any question, it must be shown in the space below that question. Omission of essential working will result in loss of marks.

Decimal answers which are not exact should be given correct to three significant figures unless stated otherwise.

Mathematical tables, slide rules and calculators should not be brought into the examination room.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets [] at the end of each question or part question.

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Xiaolong Qi

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Mathematical Models of Exoskeleton Andrey Valerievich Borisov, Anatoly Vlasovich Chigarev, 2022-03-31 This book presents the current state of the problem of describing the musculoskeletal system of a person Models of the destruction of the endoskeleton and the restoration of its functions using exoskeleton are presented A description is given of new approaches to modeling based on the use of weightless rods of variable length with concentrated masses The practical application to the tasks of numerical simulation of the movements of the musculoskeletal system of a person is described Exoskeleton models with variable length units based on absolutely hard sections and sections that change their telescopic type length have been developed The book is intended for specialists in the field of theoretical mechanics biomechanics robotics and related fields The book will be useful to teachers as well as graduate students undergraduates and senior students of higher educational institutions whose research interests lie in the modeling of anthropomorphic biomechanical Proceedings of the 8th International Congress on Environmental Geotechnics Volume 1 Liangtong Zhan, Yunmin systems Chen, Abdelmalek Bouazza, 2018-10-10 This book gathers selected papers presented at the 8th International Congress on Environmental Geotechnics ICEG held on October 28 November 1 2018 in Hangzhou China The theme of the congress is Towards a Sustainable Geoenvironment which means meeting the needs of the present generation without compromising the ability of future generations to meet their own needs Under this theme the congress covers a broad range of topics and provides an excellent opportunity for academics engineers scientists government officials regulators and planners to present discuss and exchange notes on the latest advances and developments in the research and application of environmental Yearbook of International Organizations, 2013-2014 (Volume 2) geotechnics Arizona Educational Directory, 1951 Union Of International Associations, Union of International Associations, 2013-06-21 The Yearbook of International Organizations provides the most extensive coverage of non profit international organizations currently available Detailed profiles of international non governmental and intergovernmental organizations IGO collected and documented by the Union of International Associations can be found here In addition to the history aims and acitvities of international organizations with their events publications and contact details the volumes of the Yearbook include networks between associations biographies of key people involved and extensive statistical data Volume 2 allows users to locate organizations by the country in which secretariats or members are located Active Electrical Distribution Network Baseem Khan, Josep M. Guerrero, Sanjeevikumar Padmanaban, Hassan Haes Alhelou, Om Prakash Mahela, Sudeep Tanwar, 2021-07-13 ACTIVE ELECTRICAL DISTRIBUTION NETWORK Discover the major issues solutions techniques and applications of active electrical

distribution networks with this edited resource Active Electrical Distribution Network A Smart Approach delivers a comprehensive and insightful guide dedicated to addressing the major issues affecting an often overlooked sector of the electrical industry electrical distribution The book discusses in detail a variety of challenges facing the smart electrical distribution network and presents a detailed framework to address these challenges with renewable energy integration The book offers readers fulsome analyses of active distribution networks for smart grids as well as active control approached for distributed generation electric vehicle technology smart metering systems smart monitoring devices smart management systems and various storage systems It provides a treatment of the analysis modeling and implementation of active electrical distribution systems and an exploration of the ways professionals and researchers from academia and industry attempt to meet the significant challenges facing them From smart home energy management systems to approaches for the reconfiguration of active distribution networks with renewable energy integration readers will also enjoy A thorough introduction to electrical distribution networks including conventional and smart networks. An exploration of various existing issues related to the electrical distribution network An examination of the importance of harmonics mitigation in smart distribution networks including active filters A treatment of reactive power compensation under smart distribution networks including techniques like capacitor banks and smart devices An analysis of smart distribution network reliability assessment and enhancement Perfect for professionals scientists technologists developers designers and researchers in smart grid technologies security and information technology Active Electrical Distribution Network A Smart Approach will also earn a place in the libraries of policy and administration professionals as well as those involved with electric utilities electric policy development and regulating authorities Light and Video Microscopy Randy O. Wayne, 2019-06-11 Light and Video Microscopy Third Edition provides a step by step journey through philosophy psychology and the geometrical and physical optics involved in interpreting images formed by light microscopes The book addresses the intricacies necessary to set up light microscopes that allow one to visualize transparent specimens and in the process quantitatively determine various physico chemical properties of specimens This updated edition includes the most recent developments in microscopy ensuring that it continues to be the most comprehensive easy to use and informative guide on light microscopy With its presentation of geometrical optics it assists the reader in understanding image formation and light movement within the microscope Provides a fully revised updated resource on three dimensional 3D structures Contains a new appendices on Diffraction Theory and Advanced Image Processing Provides practical applications lab exercises and case studies on the mathematics physics and biology used in microscopy Discusses bright field dark field phase contrast fluorescence interference differential interference and modulation contrast microscopes oblique illumination and photomicrography

Advanced Protection for the Smart Grid Mahamad Nabab Alam, Tahir Khurshaid, Meng Yen Shih, Almoataz Abdelaziz, Srete Nikolovski, 2023-12-19 **The Bookseller**, 1969 Vols for 1871 76 1913 14 include an extra number The

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