



ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Advanced Level

MATHEMATICS

PAPER 3 Mechanics and Statistics

9164/3

NOVEMBER 2015 SESSION

3 hours

Additional materials:

Answer paper

Graph paper

List of Formulae

Scientific calculator

TIME 3 hours

INSTRUCTIONS TO CANDIDATES

Write your name, Centre number and candidate number in the spaces provided on the answer paper/answer booklet.

Answer **all** questions.

If a numerical answer cannot be given exactly, and the accuracy required is not specified in the question, then in the case of an angle it should be given to the nearest degree, and in other cases, it should be given correct to 2 significant figures.

If a numerical value for g is necessary, take $g = 9.81 \text{ ms}^{-2}$.

INFORMATION FOR CANDIDATES

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

The total number of marks for this paper is 120.

Within each section of the paper, questions are printed in the order of their mark allocations and candidates are advised, within each section, to attempt questions sequentially.

The use of a scientific calculator is expected, where appropriate.

You are reminded of the need for clear presentation in your answers.

This question paper consists of 8 printed pages.

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Mathematics 9164 1 June 2015

Lingjun Ying



Mathematics 9164 1 June 2015:

Proceedings of the 44th Annual American Astronautical Society Guidance, Navigation, and Control Conference, 2022 Matt Sandnas, David B. Spencer, 2024-03-30 This conference attracts GN C specialists from across the globe The 2022 Conference was the 44th Annual GN C conference with more than 230 attendees from six different countries with 44 companies and 28 universities represented The conference presented more than 100 presentations and 16 posters across 18 topics This year the planning committee wanted to continue a focus on networking and collaboration hoping to inspire innovation through the intersection of diverse ideas These proceedings present the relevant topics of the day while keeping our more popular and well attended sessions as cornerstones from year to year Several new topics including Autonomous Control of Multiple Vehicles and Results and Experiences from OSIRIS REx were directly influenced by advancements in our industry In the end the 44th Annual GN C conference became a timely reflection of the current state of the GN C ins the space industry The annual American Astronautical Society Rocky Mountain Guidance Navigation and Control GN C Conference began 1977 as an informal exchange of ideas and reports of achievements among guidance and control specialists local to the Colorado area Bud Gates Don Parsons and Bob Culp organized the first conference and began the annual series of meetings the following winter In March 1978 the First Annual Rocky Mountain Guidance and Control Conference met at Keystone Colorado It met there for eighteen years moving to Breckenridge in 1996 where it has been for over 25 years

Intelligent Systems and Pattern Recognition Akram Bennour, Ahmed Bouridane, Somaya Almaadeed, Bassem Bouaziz, Eran Edirisinghe, 2025-03-04 This Three volume set CCIS 2303 2305 constitutes the proceedings of the 4th International Conference on Intelligent Systems and Pattern Recognition ISPR 2024 held in Istanbul Turkey in June 26 28 2024 The 77 full papers presented were thoroughly reviewed and selected from the 210 submissions The conference provided an interdisciplinary forum for the exchange of innovative advancements in the fields of artificial intelligence and pattern recognition

Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1978 *The 2020 Yearbook of the Digital Ethics Lab* Josh Cows, Jessica Morley, 2021-10-30 This annual edited volume presents an overview of cutting edge research areas within digital ethics as defined by the Digital Ethics Lab of the University of Oxford It identifies new challenges and opportunities of influence in setting the research agenda in the field The 2020 edition of the yearbook presents research on the following topics governing digital health visualising governance the digital afterlife the possibility of an AI winter the limits of design theory in philosophy cyberwarfare ethics of online behaviour change governance of AI trust in AI and Emotional Self Awareness as a Digital Literacy This book appeals to students researchers and professionals in the field

Exploring the Psychology of Vocational Education: From the Perspective of Literacy Promotion Jian-Hong Ye, Mei Yen Chen, Yung-Wei Hao, 2023-04-14

Handbook of American Private Schools , 2001

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