

PHYSICAL SCIENCES GRADE 10

CONTROL TEST

DURATION: $1\frac{1}{2}$ Hours

MARKS: 75

EXAMINER: Ms T. Mzalisi

MODERATOR: Mr Mabangula

INSTRUCTIONS:

1. Write your name and class (e.g. 10A) in the appropriate spaces on the **ANSWER BOOK**.
2. Answer **ALL** the questions in the **ANSWER BOOK**.
3. Start **EACH** question on a **NEW** page in the **ANSWER BOOK**.
4. Number the answers correctly according to the numbering system used in this question paper. Leave **ONE** line between two sub questions, e.g. between **QUESTION 2.1** and **QUESTION 2.2**.
5. You may use a non-programmable calculator.
6. Show **ALL** formulae and substitutions in **ALL** calculations.
7. Round off your final numerical answers to a minimum of **TWO** decimal places.
8. Give brief motivations, discussions, etc. where required.
9. Write neatly and legibly.
10. Good luck!

Matric 2march Control Test Question Paper

Wolfgang Guggemos



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Applied Mechanics Reviews ,1974 *Computer Aided Design of Control Systems* M. A. Cuenod,2014-05-19 Computer Aided Design of Control Systems focuses on the use of computers to analyze and design the control of various processes as well as the development of program packages with different algorithms for digital computers The selection first takes a look at the computer aided design of minimal order controllers including design of interacting and noninteracting dynamic controllers of minimal order and basic algorithm The book then discusses an accelerated Newton process to solve Riccati equation through matrix sign function suboptimal direct digital control of a trickle bed absorption column and structural design of large systems employing a geometric approach The text underscores the computer as an aid for the implementation of advanced control algorithms on physical processes and analysis of direct control algorithms and their parallel realization Topics include hardware influences on the control process influence and interactive structure design of direct control systems The book also takes a look at the optimal control of randomly sampled linear stochastic systems computer aided design of suboptimal test signals for system identification and computer aided design of multi level systems with prescribed structure and control constraints The selection is a dependable source of data for readers interested in the uses of computers

Resources in Education ,1990-07 **Technology for Large Space Systems** ,1986 *U.S. Government Research Reports* ,1964 **Radioactive Waste Management** ,1981 Highway Safety Literature ,1980 *Proceedings of the 1995 IEEE IECON: Signal processing and control, Robotics vision and sensors, Emerging technologies, and Factory automation* ,1995 **Scientific and Technical Aerospace Reports** ,1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database *Energy Research Abstracts* ,1986 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes

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