

**DEPARTMENT OF HIGHER EDUCATION AND TRAINING  
REPUBLIC OF SOUTH AFRICA  
NATIONAL CERTIFICATE  
ENGINEERING SCIENCE NS  
TIME: 3 HOURS  
MARKS: 100**

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**INSTRUCTIONS AND INFORMATION**

1. Answer ALL the questions.
  2. All calculations should consist of at least THREE steps:
    - 2.1 The formula used in the calculation
    - 2.2 Substitution of the given data in the formula
    - 2.3 The answer with the correct SI unit
  3. The constant values, as they appear in the information sheet, must be used whenever possible.
  4. Number the answers according to the numbering system used in this question paper.
  5. Keep sub-sections of questions together.
  6. Rule off on completion of each question.
  7. Drawing instruments must be used for all drawings/diagrams. All drawings/diagrams must be fully labelled.
  8. Use  $g = 9,8 \text{ m/s}^2$ .
  9. Answers must be rounded off to THREE decimal places.
  10. Write neatly and legibly.
-

# Engineering Science Memorandum July 2014 N3

**Tommy Ferreira**



### **Engineering Science Memorandum July 2014 N3:**

**Future Propulsion Systems and Energy Sources in Sustainable Aviation** Saeed Farokhi, 2020-01-21 A comprehensive review of the science and engineering behind future propulsion systems and energy sources in sustainable aviation. Future Propulsion Systems and Energy Sources in Sustainable Aviation is a comprehensive reference that offers a review of the science and engineering principles that underpin the concepts of propulsion systems and energy sources in sustainable air transportation. The author, a noted expert in the field, examines the impact of air transportation on the environment and reviews alternative jet fuels, hybrid electric and nuclear propulsion, and power. He also explores modern propulsion for transonic and supersonic/hypersonic aircraft and the impact of propulsion on aircraft design. Climate change is the main driver for the new technology development in sustainable air transportation. The book contains a critical review of gas turbine propulsion and aircraft aerodynamics, followed by an insightful presentation of the aviation impact on the environment. Future fuels and energy sources are introduced in a separate chapter. Promising technologies in propulsion and energy sources are identified, leading to pathways to sustainable aviation. To facilitate the utility of the subject, the book is accompanied by a website that contains illustrations and equation files. This important book contains a comprehensive reference to the science and engineering behind propulsion and power in sustainable air transportation. Examines the impact of air transportation on the environment. Covers alternative jet fuels and hybrid electric propulsion and power. Discusses modern propulsion for transonic, supersonic, and hypersonic aircraft. Examines the impact of propulsion system integration on aircraft design. Written for engineers, graduate and senior undergraduate students in mechanical and aerospace engineering. Future Propulsion Systems and Energy Sources in Sustainable Aviation explores the future of aviation with a guide to sustainable air transportation that includes alternative jet fuels, hybrid electric propulsion, all electric, and nuclear propulsion.

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