

AUGUST 2007

NATIONAL CERTIFICATE

ENGINEERING SCIENCE N4

TIME: 3 HOURS

MARKS: 100

INSTRUCTIONS AND INFORMATION

1. Answer ALL the questions.
 2. Marks indicated are percentages obtainable.
 3. Questions may be answered in any order, but subsections of questions must be kept together.
 4. ALL formulae used must be written out.
 5. Show ALL the intermediate steps.
 6. Questions must be answered in blue or black ink.
 7. ALL the sketches and diagrams must be done in pencil in the answer book.
 8. $g = 9,8 \text{ m/s}^2$
-

QUESTION 1

- 1.1 Two aeroplanes leave an airport simultaneously. Aeroplane V flies north-west at 130 km/h and aeroplane W flies S 40° W at 175 km/h. Calculate the velocity of aeroplane W relative to the velocity of aeroplane V in magnitude and direction. (5)
- 1.2 A body is projected at such an angle that the horizontal displacement (range) is five times the maximum height reached. The initial velocity is 200 m/s. Calculate the angle of projection. (5)
- 1.3 An aeroplane can fly at 310 km/h in still air. Calculate how long does it take, in hours, to reach an airport 750 km to the south-west if a wind is blowing at 110 km/h from the west. (5)

Engineering Science N4 Questions Answers

Terry C. Jones



Engineering Science N4 Questions Answers:

The book delves into Engineering Science N4 Questions Answers. Engineering Science N4 Questions Answers is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Engineering Science N4 Questions Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Engineering Science N4 Questions Answers
- Chapter 2: Essential Elements of Engineering Science N4 Questions Answers
- Chapter 3: Engineering Science N4 Questions Answers in Everyday Life
- Chapter 4: Engineering Science N4 Questions Answers in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Engineering Science N4 Questions Answers. The first chapter will explore what Engineering Science N4 Questions Answers is, why Engineering Science N4 Questions Answers is vital, and how to effectively learn about Engineering Science N4 Questions Answers.
3. In chapter 2, the author will delve into the foundational concepts of Engineering Science N4 Questions Answers. This chapter will elucidate the essential principles that must be understood to grasp Engineering Science N4 Questions Answers in its entirety.
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5. In chapter 4, this book will scrutinize the relevance of Engineering Science N4 Questions Answers in specific contexts. The fourth chapter will explore how Engineering Science N4 Questions Answers is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Engineering Science N4 Questions Answers. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Engineering Science N4 Questions Answers.

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