

# INDUSTRIAL ELECTRONICS N4

AUGUST 2009 MEMORANDUM

## QUESTION 1 / VRAAG 1

Consider loop ABEFA      Beskou lus ABEFA

$$V_1 = I_1 R_1 + R_L (I_1 + I_2)$$

$$= 6I_1 + 15I_1 + 15I_2$$

$$4 = 21I_1 + 15I_2 \dots\dots\dots [1]$$

(2)

Consider loop CBEDC      Beskou lus CBEDC

$$V_2 = I_2 R_2 + R_L (I_1 + I_2)$$

$$= 12I_2 + 15I_1 + 15I_2$$

$$10 = 15I_1 + 27I_2 \dots\dots\dots [2]$$

(2)

$$[1] \times 15: 60 = 315I_1 + 225I_2 \dots\dots\dots [3]$$

(1)

$$[2] \times 21: 210 = 315I_1 + 657I_2 \dots\dots\dots [4]$$

(1)

$$[4] - [3]: 150 = 342I_2$$

$$\therefore I_2 = 0,439 \text{ A}$$

(1)

Substitute  $I_2$  in [1]

Vervang  $I_2$  in [1]

$$4 = 21I_1 + 15(0,439)$$

$$4 - 6,585 = 21I_1$$

$$\therefore I_1 = -0,123 \text{ A}$$

(2)

$$I_1 + I_2 = -0,123 + 0,439$$

$$= 0,316 \text{ A}$$

(1)  
[10]

# N4 2014 Question 1 Industrial Electronic

**Terry C. Jones**



**N4 2014 Question 1 Industrial Electronic:**

This book delves into N4 2014 Question 1 Industrial Electronic. N4 2014 Question 1 Industrial Electronic is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into N4 2014 Question 1 Industrial Electronic, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to N4 2014 Question 1 Industrial Electronic
    - Chapter 2: Essential Elements of N4 2014 Question 1 Industrial Electronic
    - Chapter 3: N4 2014 Question 1 Industrial Electronic in Everyday Life
    - Chapter 4: N4 2014 Question 1 Industrial Electronic in Specific Contexts
    - Chapter 5: Conclusion
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  3. In chapter 2, this book will delve into the foundational concepts of N4 2014 Question 1 Industrial Electronic. The second chapter will elucidate the essential principles that need to be understood to grasp N4 2014 Question 1 Industrial Electronic in its entirety.
  4. In chapter 3, this book will examine the practical applications of N4 2014 Question 1 Industrial Electronic in daily life. The third chapter will showcase real-world examples of how N4 2014 Question 1 Industrial Electronic can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of N4 2014 Question 1 Industrial Electronic in specific contexts. The fourth chapter will explore how N4 2014 Question 1 Industrial Electronic is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about N4 2014 Question 1 Industrial Electronic. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of N4 2014 Question 1 Industrial Electronic.

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