

ENGINEERING MATHEMATICS

MIDTERM EXAM REVIEW QUESTIONS

with answers and solutions

1. 1101 in binary is equivalent to 13 in decimal.
 - a. To convert from binary to decimal, we can use the formula:
 - b. decimal number = $a_0 * 2^0 + a_1 * 2^1 + a_2 * 2^2 + \dots + a_n * 2^n$, where a_n is the n th bit from the right.
 - c. For this question, we have:
 - d. $1 * 2^0 + 0 * 2^1 + 1 * 2^2 + 1 * 2^3 = 13$.
2. 43 in decimal is equivalent to 101011 in binary.
 - a. To convert from decimal to binary, we can repeatedly divide the decimal number by 2, and write down the remainder. The binary number is the sequence of remainders, read from bottom to top.
 - b. For this question, we have:
 - c. $43 / 2 = 21$ remainder 1
 - d. $21 / 2 = 10$ remainder 1
 - e. $10 / 2 = 5$ remainder 0
 - f. $5 / 2 = 2$ remainder 1
 - g. $2 / 2 = 1$ remainder 0
 - h. $1 / 2 = 0$ remainder 1
 - i. So 43 in decimal is equivalent to 101011 in binary.
3. 11011010 in binary is equivalent to DA in hexadecimal.
 - a. To convert from binary to hexadecimal, we can group the bits into groups of 4, starting from the right, and convert each group to a hexadecimal digit.
 - b. For this question, we have:
 - c. 1101 1010 = DA in hexadecimal.
4. A8 in hexadecimal is equivalent to 10101000 in binary.
 - a. To convert from hexadecimal to binary, we can convert each hexadecimal digit to its 4-bit binary representation.
 - b. For this question, we have:
 - c. A = 1010
 - d. 8 = 1000
 - e. So A8 in hexadecimal is equivalent to 10101000 in binary.
5. 11010110 in binary is equivalent to 326 in octal.

Midterm Exam 2009 Engineering Programs

SA Dillow



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Midterm Exam 2009 Engineering Programs Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Midterm Exam 2009 Engineering Programs**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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