

N3 ELECTRO TECHNOLOGY PAST EXAM QUESTIONS AND ANSWERS BY Mr W. KIESER

QUESTION 1

- 1.1 Study material for Question 1 of the following parts is reproduced below (and summarised):

- 1.1.1 Switches
1.1.2 Motors
1.1.3 Field winding

- 1.2 Study material for the questions of the three parts and their parts are provided, with regard to the location of material in the following 20 questions:

- 1.2.1 Questions
1.2.2 Answers

- 1.3.1 Question: (The following question is for Question 1 of the following parts and their parts are provided, with regard to the location of material in the following 20 questions):

- 1.3.2 Answer: (The following answer is for Question 1 of the following parts and their parts are provided, with regard to the location of material in the following 20 questions):

- 1.3.3 Question: (The following question is for Question 1 of the following parts and their parts are provided, with regard to the location of material in the following 20 questions):

- 1.3.4 Answer: (The following answer is for Question 1 of the following parts and their parts are provided, with regard to the location of material in the following 20 questions):

- 1.3.5 Question: (The following question is for Question 1 of the following parts and their parts are provided, with regard to the location of material in the following 20 questions):

QUESTION 2

- 2.1 Study material for Question 2 of the following parts is reproduced below (and summarised):

- 2.1.1 Motors
2.1.2 Motors

- 2.2 Study material for Question 2 of the following parts is reproduced below (and summarised):

- 2.3 Study material for Question 2 of the following parts is reproduced below (and summarised):

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the four quadrant chopper block represents a four quadrant controlled chopper for converting a fixed dc input to a variable dc output the block contains two bridge arms each bridge arm each has two switching devices options for the type of

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3 four quadrant operation of dc motor four quadrant operation or mode of any dc motor means that machine operate in four quadrants they are forward braking mode forward motoring mode reverse braking or stop mode and reverse motoring mode a motor operates in two modes motoring and braking a motor drive capable of

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this paper gives a control for three phase brushless dc bldc motor in all four quadrant operation the control system in this paper is capable to detect and identify the rotor position by sensor signal 1 in this paper behaviour of bldc motor is studied in all four quadrant operations through simulation model

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aug 8 2020 1 answer sorted by 1 you can think of the first quadrant operation as being a buck converter down from the supply to the motor you can think of the second quadrant as being a boost converter from the motor's generated low voltage up to the supply voltage

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put simply the four quadrants that the controller can work in are 1 motor going clockwise controller applying clockwise drive 2 motor going anti clockwise controller applying anti clockwise drive 3 motor going clockwise controller applying anti clockwise drive 4 motor going anti clockwise controller applying clockwise drive

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sep 11 2019 four quadrants drive dc chopper for series motor full size image this modes of operation can be controlled by ai controllers such as expert system fuzzy logic self tuning fuzzy 10 11 12 13 14 15 16 neural network as well as anfis but this paper focused only on the circuit operation of generator mode

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four quadrant operation of dc motor means that the machine operates in four quadrants they are forward braking forward motoring reverse motoring and reverse braking a motor operates in two modes motoring and braking

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1 to observe the four quadrant operation of a dc motor 2 to control a motor under torque control 3 to couple the speed control motor and torque controlled motor and observe the effect of a stepped torque 6 2 four quadrant operation of a dc motor the four quadrant operation is performed by giving an alternating reference speed command to

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aug 16 2021 the four quadrant operation of the motor can be described as follows quadrant i in the first quadrant the developed power by the motor is positive thus the motor operates in motoring mode and converts electrical energy into mechanical energy therefore the operation of the motor in first quadrant is called forward motoring quadrant ii

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the control of bldc motor in four quadrants is very crucial in this paper bldc motor is controlled in all the four quadrants without any wastage of power during regenerative braking period power generated is being stored in the chargeable battery

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aug 3 2019 introduction in this experiment four quadrant operation of a dc motor is simulated as well as run in real time the

speed and current control model developed in the previous experiment is used to emulate the four regions of operation
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