

Creative Problem Solving



New for 2015-2016

The average of the team test score will now be counted as part of the final score for the team. The rating sheet has been updated.

- Purpose:** To encourage HOSEA members to analyze the problem solving process and to work as a team to apply their problem solving skills in creating a solution to a hypothetical health or HOSEA-related problem.
- Description:** This event will involve two rounds of competition. Round One will consist of a written test to evaluate the team's understanding of problem solving processes and theories. The top scoring teams will advance to Round Two and will be given a potential problem related to HOSEA, a health issue or the health community. Teams will have 30 minutes to analyze the problem. Selected resource materials related to the problem will be provided. At the end of the preparation time, teams will have eight (8) minutes to present their solution to a panel of judges.
- Dress Code:** Competitors shall wear the HOSEA uniform or proper business attire. Bonus points will be awarded in both rounds for [proper dress](#). All team members must be properly dressed to receive bonus points.
- Rules and Procedures**
1. Competitors in this event must be active members of HOSEA in good standing in the category in which they are registered to compete (Secondary or Postsecondary/Collegiate).
 2. Competitors must be familiar with and adhere to the "[General Rules and Regulations of the National HOSEA Competitive Events Program \(GRN\)](#)."
 3. Teams must be composed of three (3) or four (4) members.
 4. **Round One Test Instructions:** Each team will be evaluated in Round One by a fifty (50) item multiple choice written test. Competitors will be given sixty (60) minutes to complete the test, which will be administered during the event presentation session. **No proctors are allowed for this event.** Team scores will be averaged to determine who will qualify for Round Two. The averaged scores will be added to the final solution presentation for a final tally.

Round 1: Written Test Plan

- | | |
|--|-----|
| • Theory/Skills of Creative Thinking | 40% |
| • Problem Identification | 10% |
| • Classification of Problems/Developing Objectives | 10% |
| • Problem Solving Strategies | 10% |
| • Examining constraints/developing alternatives | 10% |
| • Sharing Decisions/Implementation | 10% |

Hosa Creative Problem Solving Test Sample

Liyong Dong



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jan 1 2018 this paper proposes a method that designs a simulation model of four quadrant operation of bldc motor drive and to reduce the torque ripples in the developed model the characteristics of speed torque back emf are effectively monitored and analyzed optimized design of permanent magnet brushless dc motor for ceiling fan applications

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a four quadrant or multiple quadrant operation is required in industrial as well as commercial applications these applications require both driving and braking i e motoring and generating capability some of these applications include electric traction systems cranes and lifts cable laying winders and engine test loading systems

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speed control of a machine is the most vital and important part in any industrial organization this paper is designed to develop a four quadrant speed control system for a dc motor using microcontroller the motor is operated in four quadrants i e clockwise counter clock wise forward brake and reverse brake

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paper proposes a way to govern the rate and route control of a dc motor with the help of a 4 quadrant dc dc chopper the speed under the base velocity may be controlled by way of armature voltage manage technique mosfets are used for the switching operation of the chopper the gates of those mosfets are given pwm

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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 breaking mode forward motoring mode reverse breaking or stop mode and reverse motoring mode a motor operates in two modes motoring and breaking 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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may 11 2021 a four quadrants dc chopper fqdc has been developed to work with a series motor for the application of dc drive electric vehicle in previous work capable of operating in such driving conditions and offers several types of chopper operation modes such as driving and reverse regenerative and resistive braking generator mode field weakening

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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

what is four quadrant motor control and how does it work - Apr 16 2023

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

experiment 6 four quadrant operation of dc motor - Mar 15 2023

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

four quadrant operation of dc motor motoring and braking operation - Aug 20 2023

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

four quadrant operation and control of three phase bldc motor without - Aug 08 2022

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

four quadrant operation of dc motor sciamble - May 17 2023

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 theoretical background consider an elevator system shown in figure below

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jan 1 2018 doi org 10 1016 j matpr 2017 11 261 get rights and content this paper proposes a method that designs a simulation model of four quadrant operation of bldc motor drive and to reduce the torque ripples in the developed model the characteristics of speed torque back emf are effectively monitored and analyzed

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four quadrant operation of a pm dc motor 5 1 objective the objective of this activity is to analyze the four quadrant operation of a permanent magnet dc pm dc motor this activity was derived from those developed and distributed by the university of minnesota umn 5 2 review of four quadrant operation