

JANUARY ... DOES IT BRING YOU JOY?

- 1 January is the time for renewal on many fronts. It's the time of the year to re-evaluate everything. If something or someone doesn't bring you joy, it's pretty pointless carrying on with it. If we want the best, we must do our best. We must keep our family space safe and secure so that we are thriving as a people and as a nation. 5
- 2 In order to live their best lives, people are spreading themselves thinner and thinner with multiple streams of income. In the process we earn more but live less, we lose our focus of what is important.
- 3 With social media, keeping up with other Instagrammers are having a devastating effect on self-perception. Everything appears to be real perfect, but the fabric of our society is frazzled. Use January to take stock and start navigating new ways of doing things. Instead of multiple streams of sole sessions, travel more, and connect with people and places that bring you joy. 10

[Adapted from *The Juice*, January 2020]

QUESTIONS: TEXT F

- 5.1 Refer to line 1.
Provide a synonymous phrase for 'on many fronts'. (1)
- 5.2 What is the function of the hyphen in 're-evaluate' (line 2)? (1)
- 5.3 Rewrite the following sentence in the passive voice.
'If something or someone doesn't bring you joy, it's pretty pointless carrying on with it' (lines 2–3). (1)
- 5.4 Remove the redundancy in paragraph 1. (1)

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JA Banks



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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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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

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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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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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theoretical background consider an elevator system shown in figure below

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