

# $\begin{array}{c} \textit{MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY,} \\ \textit{JAMSHORO} \end{array}$

## MID SEMESTER EXAMINATION OF 8th SEMESTER 13 BATCH (Section-1) OF B.E. (ELECTRICAL ENGINEERING)

#### POWER ELECTRONICS

Course code: EL-421

Date: 22-08-16 Time Allowed: I hour (3 C.H)
NOTE: ATTEMPT ANY TWO OUESTIONS.

Max: Marks-20.

#### Q. No:1

- (a) Sketch static V-I characteristics of a GTO. Enlist the operating modes and explain turn off capability of GTO.
- (b) A thyristor has a linearized gate-cathode characteristic of slope 25 V/A. A gate current of 200mA turns the thyristor on in 16 micro-seconds. The gate source voltage is 10V. The manufacturer's average maximum power for the gate is 400mW.
  - (i) Sketch the gate- cathode characteristics.
  - (ii) Calculate the value of the gate series resistance.
  - (iii) Calculate the gate power dissipation during turn-on.

#### O. No:2

- (a) With the help of circuit diagram, explain, how a charge capacitor switched by an auxiliary SCR turn off the load carrying SCR.
- (b) Sketch typical off-state characteristics of two series connected thyristors and show how they share the voltage.

#### Q. No:3

- (a) Draw equivalent and firing circuit of UJT.
- (b) Replace the SCR as shown in Figure 1 with RCT and entist the advantages of the circuit. Draw and discuss the operation of Resistive AC firing circuit used to trigger of the following circuit after replacing the SCR.

Draw the waveforms across load and RCT at firing angle of 120°.

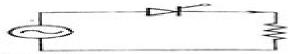


Figure 1

.....THE END-----

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Bogdan M. Wilamowski, J. David Irwin

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publications in the field Modern communication systems in factories use many different and increasingly sophisticated systems to send and receive information Industrial Communication Systems spans the full gamut of concepts that engineers require to maintain a well designed reliable communications system that can ensure successful operation of any production process Delving into the subject this volume covers Technical principles Application specific areas Technologies Internet programming Outlook including trends and expected challenges Other volumes in the set Fundamentals of Industrial Electronics Power Electronics and Motor Drives Control and Mechatronics Intelligent Systems Innovative Algorithms and Techniques in Automation, Industrial Electronics and Telecommunications Tarek Sobh, Khaled Elleithy, Ausif Mahmood, Mohamed Karim, 2007-09-04 Innovative Algorithms and Techniques in Automation Industrial Electronics and Telecommunications includes a set of rigorously reviewed world class manuscripts addressing and detailing state of the art research projects in the areas of Industrial Electronics Technology not only the reviewing submissions and registration processes but also the actual conference Conference participants authors presenters and attendees only needed an internet connection and sound available on their computers in order to be able to contribute and participate in this international ground breaking conference The on line structure of this high quality event allowed academic professionals and industry participants to contribute work and attend world class technical presentations based on rigorously refereed submissions live without the need for investing significant travel funds or time out of the office Suffice to say that CISSE received submissions from more than 70 countries for whose researchers this opportunity presented a much more affordable dynamic and well planned event to attend and submit their work to versus a classic on the ground conference The CISSE conference audio room provided superb audio even over low speed internet connections the ability to display PowerPoint presentations and cross platform compatibility the conferencing softwareruns on Windows Mac and any other operating system that supports Java In addition the conferencing system allowed for an unlimited number of participants which in turn granted CISSE the opportunity to allow all participants to attend all presentations as opposed to limiting the number of available seats for each session Power Electronics and Motor Drives Bogdan M. Wilamowski, J. David Irwin, 2018-10-03 The Industrial Electronics Handbook Second Edition combines traditional and newer more specialized knowledge that will help industrial electronics engineers develop practical solutions for the design and implementation of high power applications Embracing the broad technological scope of the field this collection explores fundamental areas including analog and digital circuits electronics electromagnetic machines signal processing and industrial control and communications systems It also facilitates the use of intelligent systems such as neural networks fuzzy systems and evolutionary methods in terms of a hierarchical structure that makes factory control and supervision more efficient by addressing the needs of all production components Enhancing its value this fully updated collection presents research and global trends as published in the IEEE Transactions on Industrial Electronics Journal one of the largest and most respected

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electrical motor Some can be programmed by the user Some can communicate with other drives Semiconductor switches have improved intelligent power modules have been introduced all of which means that control techniques can be used now that were unimaginable a decade ago Nor has the motor side stood still high energy permanent magnets semiconductor switched reluctance motors silicon micromotor technology and soft magnetic materials produced by powder technology are all revolutionising the industry But the electric drive is an enabling technology so the revolution is rippling throughout the Digitalized and Harmonized Industrial Production Systems Armando Walter Colombo, Michael Gepp, José Barata Oliveira, Paulo Leitao, Jose Barbosa, Jeffrey Wermann, 2019-10-28 On the one side Industrial competitiveness today means shorter product lifecycles increased product variety and shorter times to market and customized tangible products and services To face these challenges the manufacturing industry is forced to move from traditional management control and automation approaches towards industrial cyber physical systems On the other side several emergent engineering approaches and related Information Communication Control Technologies such as Multi Agent Systems Service Oriented Architecture Plug and Produce Systems Cloud and Fog Technologies Big Data and Analytics among others have been researched during the last years The confluence of those results with the latest developments in Industrial Digitalization Systems of Cyber Physical Systems Engineering Internet of Things Internet of Services and Industry 4 0 is opening a new broad spectrum of innovation possibilities The PERFoRM Production harmonizEd Reconfiguration of Flexible Robots and Machinery approach is one of them It teaches the reader what it means when production machines and systems are digitalized and migrated into Industrial Cyber Physical Systems and what happens when they are networked and start collaborating with each other and with the human using the internet After a Technology Trend Screening and beyond a comprehensive state of the art analysis about Industrial Digitalization and Industry 4 0 compliant solutions the book introduces methods architectures and technologies applicable in real industrial use cases explained for a broad audience of researchers practitioners and industrialists

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