

**MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY,
JAMSHORO****MID SEMESTER EXAMINATION OF 8th SEMESTER 13 BATCH (Section-I)
OF B.E. (ELECTRICAL ENGINEERING)****POWER ELECTRONICS**

Course code: EL-421

Date: 22-08-16

Time Allowed: 1 hour (3 C.H)

Max: Marks-20.

NOTE : ATTEMPT ANY TWO QUESTIONS.**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.

Q. 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 enlist 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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Bodgan Wilamowski,J. David Irwin



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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 whole of industry

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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Table of Contents Nindustrial Electronics Past Papers

1. Understanding the eBook Nindustrial Electronics Past Papers
 - The Rise of Digital Reading Nindustrial Electronics Past Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Nindustrial Electronics Past Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Nindustrial Electronics Past Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nindustrial Electronics Past Papers
 - Personalized Recommendations
 - Nindustrial Electronics Past Papers User Reviews and Ratings
 - Nindustrial Electronics Past Papers and Bestseller Lists

5. Accessing Nindustrial Electronics Past Papers Free and Paid eBooks
 - Nindustrial Electronics Past Papers Public Domain eBooks
 - Nindustrial Electronics Past Papers eBook Subscription Services
 - Nindustrial Electronics Past Papers Budget-Friendly Options
6. Navigating Nindustrial Electronics Past Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Nindustrial Electronics Past Papers Compatibility with Devices
 - Nindustrial Electronics Past Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nindustrial Electronics Past Papers
 - Highlighting and Note-Taking Nindustrial Electronics Past Papers
 - Interactive Elements Nindustrial Electronics Past Papers
8. Staying Engaged with Nindustrial Electronics Past Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nindustrial Electronics Past Papers
9. Balancing eBooks and Physical Books Nindustrial Electronics Past Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nindustrial Electronics Past Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Nindustrial Electronics Past Papers
 - Setting Reading Goals Nindustrial Electronics Past Papers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Nindustrial Electronics Past Papers
 - Fact-Checking eBook Content of Nindustrial Electronics Past Papers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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