

Cork Institute of Technology

Higher Certificate in Engineering in Electrical Engineering - Stage 1

Summer 2006

Industrial Electronics

(Time: 3 Hours)

INSTRUCTIONS:

Answer Five Questions.

All formula and calculations must be shown.

Examiners:

Mr. R. Daly

Mr. M. Hennessy

Prof. E. McQuade

- Q1. (a) Using the reference points in Fig. 1, explain (ignoring the capacitor) the operation of the full-wave bridge rectifier circuit and indicate the polarity at the output terminals C and D. 6 marks

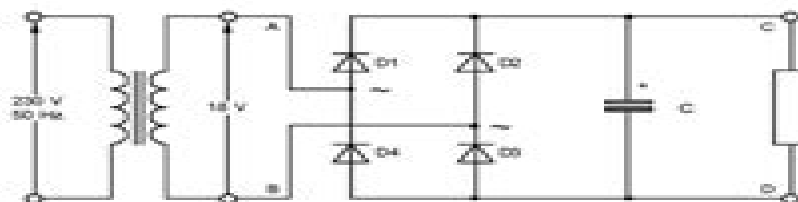


Fig.1

- (b) Show for the circuit, fully detailed waveforms with voltage and time values, for:
- (i) the voltage at the terminals AB;
 - (ii) the voltage at the terminals CD without the capacitor.
- 14 marks
- Q2. (a) Construct a 5-column binary table with appropriate headings to represent the decimal numbers from 0 to 15. Write the decimal digits in the left hand column. 5 Marks
- (b) Draw the circuit logic symbols and truth tables for, an inverter, a 2-input AND gate and a 2-input XOR gate. 7 Marks
- (c) Show how the gates in (b) can be connected to compare two data bits A and B for: $A < B$, $A = B$ and $A > B$. An output status of 1 is required when the comparison is true. 5 Marks
- Q3. (a) Draw a circuit diagram for an LED connected to a 24V d.c. supply and calculate the resistance required to limit the current in the LED to 50mA. Assume the LED operating voltage to be 3.5V. 4 marks

Industrial Electronics Npast Exam Papers

**Tarek Sobh, Khaled Elleithy, Ausif
Mahmood, Mohammad A. Karim**



Industrial Electronics Npast Exam Papers:

Electronics for Technicians P. W. Crane, 2013-10-22 *Electronics for Technicians* covers the basic fundamentals of electronics including the operation of devices and circuits. The book is meant to help the technician to obtain numerical answers to actual circuit problems. This volume consists of seven chapters, the first of which introduces the reader to the basic rules for circuits containing resistive and reactive elements. Charge and discharge of a capacitor through a resistor is discussed along with charge and discharge of an inductance through a resistance. Application of sinusoidal voltages to simple networks and series and parallel LCR circuits. The chapters that follow focus on the simple construction and operation of vacuum and semiconductor rectifier devices capable of amplifying alternating signals, uses of transistors and valves in amplifier circuits and power supplies. Negative and positive feedback is also considered with particular emphasis on circuit descriptions of the more common oscillator types that produce or do not produce sinusoidal waves. The book concludes with a chapter on laboratory test equipment such as cathode ray oscilloscopes, alternating current electronic voltmeters, low frequency signal generators and Q meters. This book is written specifically for technicians in the electrical engineering industry.

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 software runs 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.

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