

Bachelor of Engineering in Electrical Engineering – Stage 1
(NFQ Level 7)

Summer 2007

Industrial Electronics

(Time: 3 Hours)

INSTRUCTIONS:

Answer Five Questions.

All formula and calculations must be shown.

Examiners:

Mr. R. Daly

Prof. E. McQuade

Mr. M. Hennessy

- Q1 (a) What is the purpose of rectifiers in electronic equipment?

2 marks

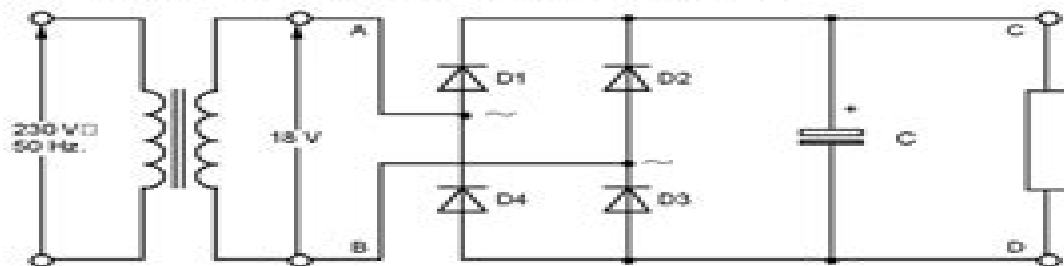


Fig. 1

- (b) 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. 5 marks
- (c) Calculate for the rectifier:
- (i) The maximum voltage (V_m) across the rectifier supply terminals AB, 3 marks
 - (ii) The peak voltage (V_p) across the load terminals CD, 3 marks
 - (iii) The average voltage $V_{d.c.}$ across the load if V_{kar} is 20% of V_p . 4 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. 6 marks
- (b) Draw the circuit logic symbols and truth tables for, a 2-input AND gate, and a 2-input XOR gate. 6 marks
- (c) Show how the gates in (b) can be connected to construct a half-adder. Include in your answer the truth table for the half-adder. 8 marks

Industrial Electronics Past Question Papers

**Tarek Sobh, Khaled Elleithy, Ausif
Mahmood, Mohamed Karim**



Industrial Electronics Past Question 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 *Industrial Electronics* ,1968 **Industrial Electronics N3** Johann Kraft, 2000 **The Industrial Electronics**

Handbook - Five Volume Set Bogdan M. Wilamowski, J. David Irwin, 2011-03-04 Industrial electronics systems govern so many different functions that vary in complexity from the operation of relatively simple applications such as electric motors to that of more complicated machines and systems including robots and entire fabrication processes The Industrial Electronics Handbook Second Edition combines traditional and new **Industrial Electronics N2** Johann Kraft, 2000

Proceedings of the IEEE International Symposium on Industrial Electronics ,2001 *IRE Transactions on Industrial Electronics* Institute of Radio Engineers. Professional Group on Industrial Electronics, 1960 **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

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New Insights on Trust in Business-to-Business Relationships Houcine Akrou, Karine Raies, Arch G. Woodside, 2019-08-15 New Insights on Trust in Business to Business Relationships provides readers with advanced original insights on trust antecedents processes and consequences within the B2B marketing context and offers practical tools alongside suggestions for future research

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