

Third Semester B.E. Degree Examination, Dec.2016/Jan.2017 Analog and Digital Electronics

Time: 3 hrs.

Max. Marks: 80

Note: Answer FIVE full questions, choosing one full question from each module.

Module-1

1.
 - a. Explain the working of N – channel DE – MOSFET, with the help of neat diagram. (08 Marks)
 - b. With circuit diagram, explain any two application of FET. (06 Marks)
 - c. How CMOS can be used as inverting switch? (02 Marks)

OR

2.
 - a. Design a voltage divider bias network using a DEMOSFET with supply voltage $V_{DD} = 16V$, $I_{DSS} = 10mA$ and $V_P = 5V$ to have a quiescent drain current of $5mA$ and gate voltage of $4V$. (Assume the drain resistor R_D to be four times the source resistor R_S and $R_2 = 1k\Omega$). (08 Marks)
 - b. Explain the performance parameters of Op-amp. (08 Marks)

Module-2

3.
 - a. Minimize the following Boolean function using K – map method
 $f(a, b, c, d) = \sum m(5, 6, 7, 12, 13) = \sum d(4, 9, 14, 15)$. (06 Marks)
 - b. Apply Quine Mc – Clusky method to find the essential prime implicants for the Boolean expression $f(a, b, c, d) = \sum m(1, 3, 6, 7, 9, 10, 12, 13, 14, 15)$. (10 Marks)

OR

4.
 - a. A digital system is to be designed in which the month of the year is given as input is four bit form. The month January is represented as '0000', February as '0001' and so on. The output of the system should be '1' corresponding to the input of the month containing 31 days or otherwise it is '0'. Consider the excess number in the input beyond '1011' as don't care conditions for the system of four variables. (ABCD) find the following :
 - i) Write truth table and Boolean expression in SOP $\sum m$ and POS $\prod M$ form.
 - ii) Using K – map simplify the Boolean expression of canonical mini term form.
 - iii) Using Basic gates implement logical circuit. (10 Marks)
 - b. What is Hazard? List the type of hazards and explain static 0 and static – 1 hazard. (06 Marks)

Module-3

5.
 - a. Implement the following function using 8:1 multiplexer $f(a, b, c, d) = \sum m(0, 1, 5, 6, 8, 10, 12, 15)$. (06 Marks)
 - b. Realize the following function using 3:8 decoder
 - i) $f(a, b, c) = \sum m(1, 2, 3, 4)$
 - ii) $f(a, b, c) = \sum m(3, 5, 7)$. (04 Marks)
 - c. What is Magnitude Comparator? Explain 1 bit magnitude comparator. (06 Marks)

OR

6.
 - a. Design 7 – segment decoder using PLA. (08 Marks)
 - b. Differentiate between Combinational and Sequential circuit. (04 Marks)

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important role in other branches The book is structured to cover the key aspects of the course Electromagnetic Field Theory for undergraduate students The knowledge of vector analysis is the base of electromagnetic engineering Hence book starts with the discussion of vector analysis Then it introduces the basic concepts of electrostatics such as Coulomb s law electric field intensity due to various charge distributions electric flux electric flux density Gauss s law divergence and divergence theorem The book continues to explain the concept of elementary work done conservative property electric potential and potential difference and the energy in the electrostatic fields The detailed discussion of current density continuity equation boundary conditions and various types of capacitors is also included in the book The book provides the discussion of Poisson s and Laplace s equations and their use in variety of practical applications The chapter on magnetostatics incorporates the explanation of Biot Savart s law Ampere s circuital law and its applications concept of curl Stoke s theorem scalar and vector magnetic potentials The book also includes the concept of force on a moving charge force on differential current element and magnetic boundary conditions The book covers all the details of Faraday s laws time varying fields Maxwell s equations and Poynting theorem Finally the book provides the detailed study of uniform plane waves including their propagation in free space perfect dielectrics lossy dielectrics and good conductors The book uses plain lucid language to explain each topic The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy The variety of solved examples is the feature of this book which helps to inculcate the knowledge of the electromagnetics in the students Each chapter is well supported with necessary illustrations and self explanatory diagrams The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting

Metal Casting and Welding Anup Goel,2020-12-01 Metal casting is the process of producing metal or alloy component parts In casting the metal is heated sufficiently to make it into liquid and then poured into moulds of the desired shape Casting is most often used for making complex shapes so that would be difficult or uneconomical to make by other methods Welding is a fabrication process that joins materials usually metals by using high heat to melt the parts together and allowing them to cool causing fusion Many different energy sources can be used for welding including gas flame electric arc a laser and electron beam friction and ultrasonic Our hope is that this book through its careful explanations and concepts and its use of sketches and figures bridges the gap between knowledge and proper application of that knowledge

Aerodynamics 1 Mr. Rohit Manglik,2023-09-23 Introduces the principles of aerodynamics including airflow lift drag and basic aircraft structures relevant to flight performance

Digital Image Processing : Practical Implementation With MATLAB Dr. A Chrispin Jiji,Dr. Y R Annie Bessant,Dr. S. Absa,Dr. S. Maria Seraphin Sujitha,2023-12-30 The book Digital Image Processing Practical Implementation with MATLAB is strictly based on the syllabus prescribed by V T U mainly for the students of 7TH semester B E Electronics and Communication Engineering and Telecommunication Engineering It covers the theoretical and implementation using MATLAB This book deals with 5 Modules The first module deals with the

fundamentals of Digital Image Processing The second module gives detailed information about Image Enhancement The third module deals with the methods of Image Restoration The fourth module gives detailed information about color wavelet and Morphological image Processing The fifth module deals with Segmentation Representation and Description

Basic Electrical Engineering Semester-II (RTM) Nagpur University B L Theraja, Kiran Manish Kimmatkar, Umesh E. Hiwase & A K Theraja, Basic Electrical Engineering is written exclusively for B Tech Second semester students of various branches as per the revised syllabus of Rashtrasant Tukadoji Maharaj Nagpur University Nagpur RTMNU Nagpur Each of the important topics that help the student in learning the principles of Electrical Engineering more effectively have been included

ICT for Competitive Strategies Durgesh Kumar Mishra, Nilanjan Dey, Bharat Singh Deora, Amit Joshi, 2020-05-05 Fourth International Conference on Information and Communication Technology for Competitive Strategies targets state of the art as well as emerging topics pertaining to information and communication technologies ICTs and effective strategies for its implementation for engineering and intelligent applications

Operations Research N. V. R. Naidu, G. Rajendra, 2013-12-30 Operation Research has emerged as the most spectacular aspect of optimization techniques Practising professionals usually rate operations research as the most useful subjects studied in college Operations Research is designed for the students of industrial engineering and management This book comprises 12 chapters and provides the introduction of each chapter and various problems of real practical situation in the organizations as well as in daily life

Transformers and Generators Uday A. Bakshi, Dr. Mayuresh V. Bakshi, 2020-11-01 The importance of transformers and generators is well known in the various engineering fields The book provides comprehensive coverage of the various types of transformers d c generators and synchronous generators alternators The book starts with the brief review of single phase transformer It continues to discuss no load and on load performance of transformers phasor diagrams equivalent circuit voltage regulation and all day efficiency of transformer The detailed discussion of open and short circuit tests and predetermination of regulation and efficiency is also included in the book The chapter on three phase transformer provides the detailed discussion of construction three phase transformer connections and phasor groups The book also explains parallel operation of transformers tap changing transformer autotransformers cooling of transformers and three winding transformer The various testing methods of transformers are also incorporated in the book The book covers all the details of d c generators including construction armature reaction commutation characteristics and applications The chapters on synchronous generators starts with the explanation of basics of synchronous generators including construction winding details e m f equation and effect of harmonics on induced e m f The book then explains the concept of armature reaction phasor diagrams regulation and various methods of finding the regulation of alternator Stepwise explanation and simple techniques used to elaborate these methods is the feature of this book The book further explains the concept of synchronization of alternators two reaction theory and parallel operation of alternators The book uses plain lucid language to explain each topic The book provides the logical

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