



CBGS SCHEME

17EC72

Seventh Semester B.E. Degree Examination, Jan./Feb. 2021

Digital Image Processing

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. Explain with block diagram, the fundamental steps used in digital image processing. (10 Marks)
b. Explain with relevant diagrams, different sensor arrangements. (10 Marks)

OR

- 2 a. Explain the process of sampling and quantization, with relevant diagrams. (10 Marks)
b. Define following: (i) Spatial and Intensity Resolution (ii) 4-, 8- and m-adjacency (iii) Euclidean distance, city-block distance and chessboard distance (10 Marks)

Module-2

- 3 a. Explain with plots, some basic intensity transformation functions. (10 Marks)
b. With relevant equations, discuss the discrete Laplacian of two variables and different implementation of Laplacian operator masks. (10 Marks)

OR

- 4 a. Discuss with relevant diagrams, the image smoothing using the frequency domain low pass filters (i) Ideal (ii) Butterworth (iii) Gaussian (10 Marks)
b. Explain the following selective filter: (i) Bandreject and Bandpass Filters (ii) Notch Filters (10 Marks)

Module-3

- 5 a. Discuss various noise models with respect to image restoration process. (10 Marks)
b. Explain the following methods for estimating degradation function: (i) Estimation by image observation (ii) Estimation by experimentation (10 Marks)

OR

- 6 a. Explain the process of restoration of images using Inverse Filtering technique. (10 Marks)
b. Explain with relevant equations, Minimum Mean Square Error (Wiener) Filtering. (10 Marks)

Module-4

- 7 a. Explain the following color models: (i) RGB (ii) HSI (10 Marks)
b. Explain Pseudocolor Image Processing. (10 Marks)

OR

- 8 a. Explain the following Morphological operations: (i) Erosion (ii) Dilation (iii) Opening (iv) closing (10 Marks)
b. Explain multi-resolution expansions used in image processing. (10 Marks)

Module-5

- 9 a. Explain Thresholding based segmentation. Discuss: (i) Global Thresholding (ii) Adaptive Thresholding (10 Marks)
b. Explain segmentation of images using Morphological Watersheds. (10 Marks)

OR

- 10 a. Explain Chain Codes used to represent a boundary. (10 Marks)
b. Discuss various approaches of boundary description. (10 Marks)

Vtu Question Paper For

**M. N. SHESHA PRAKASH, GANESH B.
MOGAVEER**

Vtu Question Paper For:

Accounting for Managers: For VTU , **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 a brief review of a 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 a 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 a 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 start 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 an 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 method of explaining the various complicated topics and stepwise methods to make the understanding easy. Each chapter is well supported with necessary illustrations, self-explanatory diagrams, and a variety of solved problems. The book explains the philosophy of the subject, which makes the understanding of the concepts very clear and makes the subject more interesting.

Electromagnetic Field Theory Uday A. Bakshi, Late Ajay V. Bakshi, 2020-11-01 The comprehensive study of electric, magnetic, and combined fields is nothing but electromagnetic engineering. Along with electronics, electromagnetics plays an 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, the 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 a 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.

Electric Motors Uday A. Bakshi, Dr. Mayuresh V. Bakshi, 2020-11-01. The importance of electric motors is well known in the various engineering fields. The book provides comprehensive coverage of the various types of electric motors including d.c. motors, three-phase and single-phase induction motors, synchronous motors, universal motor, a.c. servomotor, linear induction motor and stepper motors. The book covers all the details of d.c. motors including torque equation, back e.m.f. characteristics, types of starters, speed control methods and applications. The book also covers the various testing methods of d.c. motors such as Swinburne's test, brake test, retardation test, field test and Hopkinson's test. The book further explains the three-phase induction motors in detail. It includes the production of rotating magnetic field, construction, working, effect of slip, torque equation, torque ratios, torque-slip characteristics, losses, power flow, equivalent circuit, effect of harmonics on the performance circle diagram and applications. This chapter also includes the discussion of induction generator. The book teaches the various starting methods and speed control methods of three-phase induction motors. The book incorporates the explanation of various single-phase induction motors. The chapter on synchronous motor provides the detailed discussion of construction, working principle, behavior on load, analysis of phasor diagram, Vee and Inverted Vee curves, hunting, synchronous condenser and applications. The book also teaches the various special machines such as single-phase commutator motors, universal motor, a.c. servomotor, linear induction motor and stepper motors. 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. Each chapter is well supported with necessary illustrations, self-explanatory diagrams and variety of solved problems. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

Basic Electronics - Second Edition B. Basavaraj, 2009-11-01. This is an established textbook on Basic Electronics for engineering students. It has been revised according to the latest syllabus. The second edition of the book includes illustrations and detailed explanations of fundamental concepts with examples. The entire syllabus has been covered in 12 chapters.

Textbook of Elements of Mechanical

Engineering S. Trymbaka Murthy, 2010 This book is essential reading for the students of Mechanical Engineering It is a rich blend of theoretical concepts and neat illustrations with footnotes and a list of formulae for ready reference Key Features Step by Step approach to help students *The Drifting Stones* Anis Bari, Nilay Bipul, 2023-02-09 Anis Bari is the author of two acclaimed books *Dreams of The Mango People* an inspirational book on how ordinary people choose to become extraordinary and a monograph *Decoding Startups* which has notes on startups along with useful entrepreneurial frameworks He has received many awards including the most promising entrepreneur of the year award by TiE The Indus Entrepreneur and has been a winner of the European Union Business Challenge Born in Patna Bihar Anis went on to study engineering from PES Institute of Technology Bangalore and an MBA from the Asian Institute of Management Founded by Harvard Business School Ford Foundation Manila He is an International Rated Chess Player and a Global Shaper Alumni of the World Economic Forum Currently he is a Mason Fellow at Harvard Kennedy School **Automata and Computability** Anuradha

A. Puntambekar, 2020-12-01 The book has been developed to provide comprehensive and consistent coverage of concepts of automata theory formal languages and computation This book begins by giving prerequisites for the subject like strings languages types of automata deterministic and non deterministic automata It proceeds forward to discuss advanced concepts like regular expressions context free grammar and pushdown automata The text then goes on to give a detailed description of context free and non context free languages and Turing Machine with its complexity This compact and well organized book provides a clear understanding of the subject with its emphasis on concepts along with a large number of examples

Textbook of Mechanics of Materials Prakash M. N. Shesha, Suresh G. S., 2011-09 This textbook covers the fundamental principles and applications and discusses topics such as simple and compound stresses bending moments shear forces stresses in beams deflection in beams torsion of shafts thick and thin cylinders and columns and struts **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 Advanced Calculus and Differential Equations Mr. Rohit Manglik, 2022-07-22 Studies advanced calculus topics and differential equations crucial for modeling physical systems and solving engineering problems *Engineering Mathematics-II* A. Ganeshi, G. Balasubramanian, 2009

About the Book This book *Engineering Mathematics II* is designed as a self contained comprehensive classroom text for the second semester B E Classes of Visveswaraiah Technological University as per the Revised new Syllabus The topics included

are Differential Calculus Integral Calculus and Vector Integration Differential Equations and Laplace Transforms The book is written in a simple way and is accompanied with explanatory figures All this make the students enjoy the subject while they learn Inclusion of selected exercises and problems make the book educational in nature It shou 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

Socio-Legal Perspectives of Indian Women through Ages Socio-Legal Perspectives of Indian Women through Ages,2022-11-24 In this book the authors have covered rights of women from ancient to modern India The authors cover medieval age too They have also covered rights of Vedic women Women in Jainism Women in Islam and women in Christianity The awakening created on rights of women has eradicated many social evils like Sati practices The authors clearly highlight as how Domestic violence Act decreased the crime on women in a big way The Rules pertaining to Acid attacks on women has sent right signals against the heinous crime The authors have covered Public personal and professional life of women Property rights is one economic tool which helped daughters to get rightful share in the parents property This has revolutionized the economic rights of women by many folds Contents 1 Women in Ancient and medieval India 2 Women in modern India 3 Status of women in Independent India 4 Legislations for redressal of atrocity against women in public life 5 Statutes for safety and welfare of women at work place 6 Entrepreneurial rights of women 7 Critical analysis of position of women in India 8 Conclusion Basic Thermodynamics B. K. VENKANNA, SWATI B. V.,B. K.

Venkanna,B. V. Swati,2010-07 This book provides an in depth discussion of the principles of thermodynamics It focuses on engineering applications of theory and sound techniques for solving thermodynamic problems The book presents the fundamental concepts of thermodynamics and describes the theory of work and heat The text covers in detail the first law and the second law of thermodynamics with their applications It also explains the concepts of entropy and availability and irreversibility In addition the book presents thermodynamic properties of pure substances ideal gases and mixtures of ideal gases as well as real gases This book is designed for undergraduate students of mechanical engineering industrial and production engineering automobile engineering and aeronautical engineering for their courses in thermodynamics Key Features Presents the text in a simple and elegant manner to enable the students to grasp the essentials of the subject easily and quickly Covers all types of problems of various difficulty levels Includes more than 300 worked out examples and a large number of end of chapter exercises Provides solutions to several model question papers at the end of the book

Technology Road Mapping for Quantum Computing and Engineering Mishra, Brojo Kishore,2022-03-25 Quantum computing is radically different from the conventional approach of transforming bit strings from one set of zeros and ones to another With quantum computing everything changes The physics used to understand bits of information and the devices that manipulate them are vastly different Quantum engineering is a revolutionary approach to quantum technology Technology Road Mapping for Quantum Computing and Engineering explores all the aspects of quantum computing concepts

engineering technologies operations and applications from the basics to future advancements Covering topics such as machine learning quantum software technology and technology road mapping this book is an excellent resource for data scientists engineers students and professors of higher education computer scientists researchers and academicians

ELEMENTS OF CIVIL ENGINEERING AND ENGINEERING MECHANICS M. N. SHESHA PRAKASH, GANESH B. MOGAVEER, 2014-07-30 This book in its third edition continues to focus on the basics of civil engineering and engineering mechanics to provide students with a balanced and cohesive study of the two areas as needed by them in the beginning of their engineering education A basic undergraduate textbook for the first year students of all branches of engineering this book is specifically designed to conform to the syllabus of Visvesvaraya Technological University VTU Imparting the basic knowledge in various facets of civil engineering and the related engineering structures and infrastructure such as buildings roads highways dams and bridges the third edition covers the engineering mechanics portion in eleven chapters Each chapter introduces the concepts to the reader stepwise Providing a wealth of practice examples the book emphasizes the importance of building strong analytical skills Practice problems at the end of each chapter give students an opportunity to absorb concepts and hone their problem solving skills The book comes with a companion CD containing the software developed using MS Excel to work out the problems on Forces Centroid Friction and Moment of Inertia The use of this software will enable the students to understand the concepts in a relatively better way NEW TO THIS EDITION Introduces a chapter on Kinematics as per the revised Civil Engineering syllabus of VTU Updates with the latest examination Question Papers including the one held in the month of December 2013 Modern Control Theory Uday A. Bakshi, Dr. Mayuresh V. Bakshi, 2020-11-01 The book is written for an undergraduate course on the Modern Control Systems It provides comprehensive explanation of state variable analysis of linear control systems and analysis of nonlinear control systems Each chapter starts with the background of the topic Then it gives the conceptual knowledge about the topic dividing it in various sections and subsections Each chapter provides the detailed explanation of the topic practical examples and variety of solved problems The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting The book starts with explaining the concept of state variable and state model of linear control systems Then it explains how to obtain the state models of various types of systems using phase variables canonical variables Jordan's canonical form and cascade programming Then the book includes good coverage of the matrix algebra including eigen values eigen vectors modal matrix and diagonalization It also includes the derivation of transfer function of the system from its state model The book further explains the solution of state equations including the concept of state transition matrix It also includes the various methods of obtaining the state transition matrix such as Laplace transform method Power series method Cayley Hamilton method and Similarity transformation method It further includes the detailed discussion of controllability and observability of systems It also provides the discussion of pole placement technique of

system design The book teaches various types of nonlinearities and the nonlinear systems The book covers the fundamental knowledge of analysis of nonlinear systems using phase plane method isocline method and delta method Finally it explains stability analysis of nonlinear systems and Liapunov's stability analysis Advanced Microprocessor & Microcontrollers S. K. Venkata Ram, 2004 **Fluid Mechanics** Anup Goel, 2021-01-01 Fluid Mechanics is the branch of physics concerned with the mechanics of fluids and forces acting on them It includes unlimited practical applications ranging from microscopic biological systems to automobiles airplanes and spacecraft propulsion Fluid Mechanics is the study of fluid behavior at rest and in motion It also gives information about devices used to measure flow rate pressure and velocity of fluid The book uses plain Lucid language to explain fundamentals of this subject The book provides logical method of explaining various complicated concepts and stepwise methods to explain the important topics Each chapter is well supported with necessary illustrations practical examples and solved problems All the chapters in the book are arranged in a proper sequence that permits each topic to build upon earlier studies All care has been taken to make readers comfortable in understanding the basic concepts of the subject

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jan 10 2017 nuclear transformation nuclear transformation reactions are nuclear reactions in which the nucleus of an element called target is bombarded with an accelerated particle called projectile bomb to transform the target into a new nucleus having a new chemical physical properties the projectiles bombs can be accelerated by using

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transformations can occur as a result of nuclear decay of radioactive isotopes or neutron capture neither procedure requires a change in the atom s element an atom gets transmuted into an atom of a different element when the number of protons in it is changed

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nuclear chemistry is the subfield of chemistry dealing with radioactivity nuclear processes such as nuclear transmutation and nuclear properties it is the chemistry of radioactive elements such as the actinides radium and radon together with the chemistry associated with equipment such as nuclear reactors which are designed to perform

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unlike a normal chemical reaction that forms molecules nuclear reactions result in the transformation of one element into another this property of nuclear reactions is used in nuclear power plants to gather nuclear energy the three common types of radiations are explained below

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a nuclear reactor consists of the following a nuclear fuel a fissionable isotope must be present in large enough quantities to sustain a controlled chain reaction the radioactive isotope is contained in tubes called fuel rods a moderator

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apr 3 2019 in order to understand the origin and character of individual radioactive emissions accompanying nuclear transformation processes we first need to answer three questions what is an unstable nucleus

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transmutation the changing of one chemical element into another transmutation involves a change in the nucleus or core of an atom and is therefore a nuclear reaction transformations may result from nuclear decay of radioactive isotopes or they can result from neutron capture

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in all accelerators the particles move in a vacuum to avoid collisions with gas molecules when neutrons are required for transmutation reactions they are usually obtained from radioactive decay reactions or from various nuclear reactions occurring in nuclear reactors

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nuclear reaction a nuclear reaction is a process in which two nuclei or a nucleus and an external subatomic particle collide to produce one or more new nuclides the nuclear reaction is a reaction that involves nucleoids the reactant nucleoid called the parent nucleoid usually transforms into a different nucleoid called the daughter

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nuclear transmutation is the conversion of one chemical element or an isotope into another chemical element 1 nuclear transmutation occurs in any process where the number of protons or neutrons in the nucleus of an atom is changed a transmutation can be achieved either by nuclear reactions in which an outside particle reacts with a nucleus

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jan 10 2021 write a balanced equation for each of the following nuclear reactions bismuth 212 decays into polonium 212 beryllium 8 and a positron are produced by the decay of an unstable nucleus neptunium 239 forms from the reaction of uranium 238 with a neutron and then spontaneously converts into plutonium 239

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