





## S.K. KATARIA & SONS

#### **Educational Publishers**

**\$** 

4885/109, Prakash Mahal, Dr. Subhash Bhargav Lane, Opp. Delhi Medical Association, Daryaganj, New Delhi-110002 (India)

Tel.: +91-11-23243489, 43551243, Mobile: 9871775858
Email: katariabook@gmail.com, katariabooks@yahoo.com

Website: www.skkatariaandsons.com

(e-books, subscriptions and bulk buying also available in this website)

**B.Tech.** (Bechelor of Technology)

## AKTU, Lucknow (UP)

Catalogue 2024

For More Information



Scan QR Code

## **FIRST YEAR**

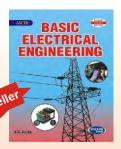
## **COMMON TO ALL BRANCHES**

## BASIC ELECTRICAL ENGINEERING

Code: BEE101/201

Size: 20 × 30/8 Pages: 600 Approx. ISBN: 978-93-5014-671-2

Price: ₹ 595/-Reprint: 2024



By J.B. Gupta

#### CONTENTS

Introductory Concepts • Basic Concepts and Definitions

Module-1: DC Circuits • DC Circuits • Time-Domain Analysis of First-Order R-L and R-C Circuits

Module-2:Steady-State Analysis of Single Phase AC Circuits • AC Fundamentals • Single Phase Series Circuits • Complex Notations and Circuit Analysis • Single Phase Parallel and Series-Parallel Circuits • Resonance in R-L-C Circuits • Three-Phase AC Circuits

**Module-3: Transformers •** Magnetic Materials and Electromagnetic Induction • Transformers

Module-4: Electrical Machine • DC Machines • Three-Phase Synchronous Machines • Three-Phase Induction Motors • Single-Phase Induction Motors

Module-5: Power Converters • Power Converters

Module-6: Electrical Installations, Electrical measuring Instruments and Miscellaneous Topics • Electrical Installations • Batteries • Electrical Measuring Instruments

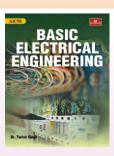
Miscellaneous Topics • Index.

## BASIC ELECTRICAL ENGINEERING

Code: BEE101/201

Size: 20 × 30/8 Pages: 450 Approx. ISBN: 978-93-83992-40-9

Price: ₹ 495/-Reprint: 2023



By Er. Talok Singh

#### CONTENTS

• DC Circuits • AC Circuits • Transformers • Electrical Machines (Three Phase Induction Motor) • Power Converters • Electrical Installations • Basic Electronics • Index.

## **FIRST YEAR**

## **COMMON TO ALL BRANCHES**

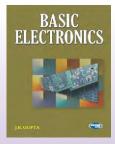
## BASIC **ELECTRONICS**

Code: BEC101/201

Size:  $20 \times 30/8$ Pages: 750 Approx.

ISBN: 978-81-906919-4-9

Price: ₹ 695/-Reprint: 2022



J.B. Gupta

Section-I: Semiconductor Physics & Semiconductor Diodes • Introductory Concepts • Semiconductor Physics • Theory of P-N Junction Diode • Special Diodes • Applications of Diodes

Section-II: Transistors, Amplifiers and Oscillators • Bipolar Junction Transistors (BJTs) • Transistor Biasing and Stabilization • Single Stage Transistor Amplifiers • Field-Effect Transistors (FETs) Multistage Amplifiers
 Feedback Amplifiers and Oscillators

Section-III: Integrated Circuits (ICs) and Power Supplies • Integrated Circuits (ICs) • Operational Amplifier (OP-AMPs) • The 555 IC Timer • Regulated and Switching Power Supplies

Section-IV: Digital Electronics & Displays • Number Systems and Codes • Logic Gates and Boolean Algebra • Logic Circuits • Displays Section-V: Electronic Measurements and Instrumentation, Microprocessors and Communication Systems • Electronic Instruments • Transducers • Microprocessors • Communication System Objective Questions

## **FUNDAMENTALS** OF **ELECTRONICS ENGINEERING**

Code: BEC101/201

Size:  $20 \times 30/8$ 

Pages: 450 Approx. ISBN: 978-93-5014-767-2

Price: ₹ 595/-Reprint: 2024



Dr. Sanjay Sharma

#### CONTENTS

#### **Unit One**

- Semiconductor Basics Semiconductor Diodes Diode Applications • Special Purpose Two Terminal Devices Unit Two
- Bipolar Junction Transistor Field Effect Transistor **Unit Three**
- Operational Amplifiers
- **Unit Four**
- Digital Electronics Unit Five
- Fundamentals of Communication Engineering
- Introduction to Wireless Communication Systems

## **PROGRAMMING FOR** PROBLEM SOLVING **USING C**

Code: BCS101/201

Size:  $20 \times 30/8$ Pages: 400 Approx. ISBN: 978-93-5014-771-9

Price: ₹ 495/-Reprint: 2024



## CONTENTS

- An Introduction to the Components of a Computer System • Idea of Algorithm • Programming Basics • Arithmetic Expression and Precedence • Conditional
- Branching Interation and Loops Arrays Functions
- Basics of Searching and Sorting Algorithms Pointers
- File Handling C Programs Sample Question Papers • Solved University Question Papers • Index.

BvDr. S. Anandamurugan

## **PROGRAMMING** FOR PROBLEM SOLVING (With CD)

Code: BCS101/201

Size:  $20 \times 30/8$ Pages: 425 Approx. ISBN: 978-93-5014-672-9

Price: ₹ 525/-Reprint: 2024



By**Udit Agarwal** 

- Introduction to Components of a Computer System
- · Idea of Algorithm · Programming Basics
- Fundamentals of C Language Operators and Expressions • Managing Input/Output Operations
- Decision Making and Conditional Branching Iteration and Loops • Arrays and Strings • Basic Algorithms
- Functions and Recursion Structure and Union
- Pointers Files Handling Appendix A Bibliography • Index • Appendix B in CD.

## **COMMON TO ALL BRANCHES**

## **FIRST YEAR**

#### PROBLEM SOLVING WITH PROGRAMMING USING C

Code: BCS101/201

Size:  $20 \times 30/8$ Pages: 275 Approx.

ISBN: 978-93-5014-749-8

Price: ₹ 295/-Reprint: 2024



By Vikas Wasson Pooja Sharma Isha Sharma Jasleen Kaur

#### CONTENTS

- Algorithm and Flowcharts
- Fundamentals of C
- Decision Control Statements in C
- Loop Control Structure in C
- · Arrays and Strings
- Functions in C
- Pointer
- Structure
- · Dynamic Memory Allocation in C
- TCS Coding Questions with Answers
- Basic Interview Questions on C
- Wipro Elite NLTH Coding/Programming Questions
- References
- Index.

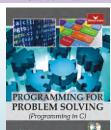
#### PROGRAMMING FOR PROBLEM SOLVING

(Programming in C) (With CD) Code: BCS101/201

Size: 20 × 30/8

Pages: 475 Approx. ISBN: 978-93-83992-38-6

Price: ₹ 525/-Reprint: 2024



#### CONTENTS

- Introduction to Computer Algorithm and Programming Development • Programming Language • Concepts of Operating System • C-Fundamentals • Program Structure
- Operators and Expressions Constants, Variables and Control Statements • Functions and Strings • Arrays
- Pointers Structures, Unions and Preprocessors
- Data Structures and Dynamic Memory Allocations
   Data File Operations
   Appendix A, B & C
- Bibliography Index Appendix D in CD.

*By* S.K. Jha

## Fundamentals of MECHANICAL ENGINEERING

Code: BME101/201

Size:  $20 \times 30/8$ Pages: 425 Approx.

ISBN: 978-93-5014-768-9 Price: ₹ 495/-

Price: ₹ 495/-Reprint: 2024



By Dr. D. S. Kumar

#### CONTENTS

• Engineering Mechanics • Mechanics of Solids

• Internal Combustion Engines and Electric Vehicles

• Refrigeration and Air-conditioning • Fluid Mechanics • Hydraulic Machines • Measurement and Instrumentation • Mechatronics Systems: Basic Concepts and Applications • Actuation and actuating systems • Index.

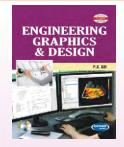
## ENGINEERING GRAPHICS & DESIGN

Code: BCE151/251

Size:  $20 \times 30/8$ Pages: 700 Approx.

ISBN: 978-93-5014-670-5

Price: ₹ 750/-Reprint: 2024



By P.S. Gill

#### CONTENTS

Part-I: Traditional Engineering Graphics (Geometrical Drawing)

• Manual Drawing Instruments

• Conventional Lines, Drawing Sheets:
Layout & Planning

• Technical Lettering

• Dimensioning Terms and

Notations

• Geometrical Constructions

• Scales

• Conic Sections

• Cycloid,

Epicycloid, Hypocycloid and Involute Curves

• Projections of Lines

• Projections of Planes

• Projections on Auxiliary

Planes

• Projections of Solids

• Sections of Solids

• Development of Surfaces

• Intersections of Surfaces

• Intersections of Sol Planes

• Projections and Reading

• Projection

• Projections

• Proj

Projections and Reading a Drawing • Perspective Projection.

Part-II: Computer Graphics • CAD Overview: Getting Started

• AutoCAD Fundamentals • Drawing 2D-Geometry • Managing Object

Properties • Viewing 2D Drawings and Object Selection • Editing TwoDimensional Drawing • Creating Text and Drawing Dimensions

• Creating/Layout/Template Files and Plotting/Printing • Creating Section

Views and Editing Hatches • Parametric Drawing Tools • Creating Block and

Assembly Drawings • 3D Coordinate Systems and Viewing 3D Drawings

• AutoCAD 2D Isometric Drawing • 3D Wireframe Modeling • 3D Suif Modeling Tools and Techniques • Multiview Drawings

from 3D Models • Index.

## **FIRST YEAR**

## **COMMON TO ALL BRANCHES**

## ENGINEERING GRAPHICS & DESIGN

Code: BCE151/251

Size: 20 × 30/8 Pages: 425 Approx.

ISBN: 978-93-5014-675-0 Price: ₹ 495/-

Price: ₹ 495/-Reprint: 2024



By Dr. Mohd. Parvez Osama Khan

#### CONTENTS

#### PartA: Engineering Drawing

• Introduction to Drawing as a Language of Engineers and Drawing Equipments • Lines and Conventional Breaks

• Lettering Techniques and Dimensioning with Tolerances

• Geometrical Construction • Engineering Curves • Scales

• Theory of Projection • Projection of Solid • Orthographic Projection • Sectional Views • Isometric Projection

• Development of Surfaces • Screw Threads and Fasteners

• Rivets and Riveted Joits • Welded Joint • Floor Plan

#### Part B: Computer Graphic (AutoCAD)

• Origin of Computer Technologies • Introduction of AutoCAD • Basic AutoCAD Commands • Customisation of Drawings in AutoCAD • Dimensioning Drawings for Objects

• Index

## ENVIRONMENT AND ECOLOGY

Code: BAS104/204

Size: 20 × 30/8 Pages: 250 Approx. ISBN: 978-93-5014-769-6

Price: ₹ 395/-Reprint: 2024



By Smriti Srivastava

#### CONTENTS

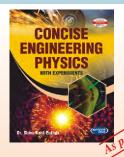
- Definition of Environment
- Ecosystem
- Effects of Human Activities on Environment
- Natural Resources
- Environmental Pollution
- The Important Current Environmental Issues
- Environmental Legislation and Human Population
- Glossary
- Model Question Papers
- Index

## CONCISE ENGINEERING PHYSICS

With Experiments
Code: BAS101/201

Size: 20 × 30/8 Pages: 375 Approx. ISBN: 978-93-5014-762-7

Price: ₹ 495/-Reprint: 2024



*By* Dr. Shiva Kant Pathak

#### CONTENTS

• Quantum Mechanics-I (Quantum Theory of Radiation) • Quantum Mechanics-II (Wave Mechanics) • Electromagnetic Field Theory • Wave Optics-I (Interference) • Wave Optics-II (Difraction) • Fiber Optics • Laser • Super Conductor • Nane-Materials • Experiments • Previous Year Examination Paper • Index.

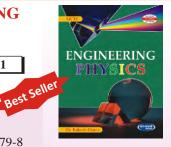
or New Syllabus

## ENGINEERING PHYSICS

Code: BAS101/201

Size: 20 × 30/8 Pages: 700 Approx. ISBN: 978-93-5014-679-8

Price: ₹ 795/-Reprint: 2024



By Dr. Rakesh Dogra

#### CONTENTS

• Interference • Diffraction • Polarization • Lasers • Fibre Optics • Quantum Mechanics • Electronic Materials • Semiconductor Physics and Measurements • Waves and Oscillations • Mechanics of Solids • Electrostatics and Electromagnetism • Electromagnetic Waves • Relativistic Mechanics • Elements of Statistics • Superconductivity • Elements of Thermodynamics • The Structure of Materials • Index.

e-books, subscriptions and bulk buying also available on www.skkatariaandsons.com

## COMMON TO ALL BRANCHES

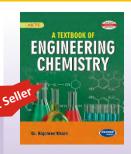
## **FIRST YEAR**

## A Textbook of **ENGINEERING CHEMISTRY**

Code: BAS102/202

Size:  $20 \times 30/8$ Pages: 800 Approx. ISBN: 978-93-5014-637-8

Price: ₹ 795/-Reprint: 2024



Bv Dr. Rajshree Khare

#### CONTENTS

- Atomic and Molecular Structure Chemical Bonding
- Spectroscopy Techniques and Applications
- Intermolecular Forces and Potential Energy Surfaces
- Use of Free Energy in Chemical Equilibria Water Chemistry • Water and its Treatment • Corrosion and its Control • Periodic Properties • Stereochemistry • Organic Reactions and Synthesis of a Drug Molecule
- Electrochemistry Nano Chemistry Polymers
- Experiments Index.

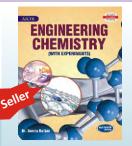
## **ENGINEERING CHEMISTRY**

(With Experiments)

Code: BAS102/202

Size:  $20 \times 30/8$ Pages: 500 Approx. ISBN: 978-93-5014-770-2

Price: ₹ 595/-Reprint: 2024



**Dr. Sunita Rattan** 

#### CONTENTS

• Atomic and Molecular Structure • Liquid Crystals, Graphite and Fullerence • Nanomaterials • Green Chemistry • Spectroscopy Techniques and Applications . Stereochemistry • Electrochemistry and Batteries • Corrosion • Chemistry of Engineering Materials • Water Technology • Fuels and Combustion • Polymers • Organometallic Compounds • Experiments • Index.

## **Experiments in** APPLIED **CHEMISTRY**

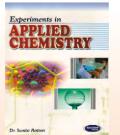
Code: BAS152/252

Size:  $20 \times 26/8$ Pages: 450 Approx.

ISBN 13: 978-81-88458-05-9

ISBN 10: 81-88458-05-8

Price: ₹ 425/-Reprint: 2024



BvDr. Sunita Rattan

#### CONTENTS

- Volumetric Analysis Water Analysis Ores and Alloy Analysis
- Potentiometry and pH Metric Measurements Conductometric Measurements • Colorimetric and Spectrophotometric Analysis
- Thermochemistry Chemical Kinetics Surface Tension Viscosity Cryoscopy Polymers Phase Equilibria
- Preparations Analysis of Coal Lubricants Chromatoraphy
- Adsorption Environmental Chemistry Appendices.

## A Textbook of **ENGINEERING MATHEMATICS-I**

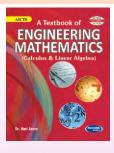
(Calculus & Linear Algebra)

Code: BAS103

Size:  $20 \times 30/8$ Pages: 600 Approx.

ISBN: 978-93-5014-674-3

Price: ₹ 625/-Reprint: 2024



BvDr. Hari Arora

- Asymptotes and Curve Tracing
- Curvature
- · Definite and Improper Integrals
- Gamma and Beta Function
- · Applications of Integration
- · Differential Calculus
- · Indeterminate Forms and Maxima & Minima
- Sequences and Series
- Exponential and Logarithmic Series
- Fourier Series
- Multivariable Calculus (Differentiation) Matrices
- Vector Spaces
- Index.

## **FIRST YEAR**

## **COMMON TO ALL BRANCHES**

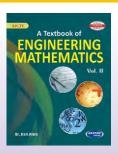
## A Textbook of **ENGINEERING MATHEMATICS-II**

Code: BAS203

Size:  $20 \times 30/8$ Pages: 775 Approx.

ISBN: 978-93-5014-685-9

Price: ₹ 795/-Reprint: 2023



BvDr. Hari Arora

#### CONTENTS

• First Order Ordinary Differential Equations • Ordinary Differential Equations of Higher Orders • Multivariable Calculus (Integration) • Vector Differential Calculus • Vector Integral Calculus • Matrices • Sequences and Series • Complex Variable Differentiation • Complex Variable Integration • Laplace Transforms • Fourier Transforms • Partial Differential Equations • Index.

## **ADVANCED ENGINEERING** MATHEMATICS

Code: BAS103/203

Size:  $20 \times 30/8$ 

Pages: 1250 Approx.

ISBN: 978-93-83992-34-8 Price: ₹ 895/-

Third Edition: 2022

(Agency Book)

# **ADVANCED ENGINEERING**

Dr. V.P. Mishra Pratibha Mishra

#### CONTENTS

Partial Differentiation, Euler's Theorem, Change of Variables, Expansion of Functions, Approximation, Lacobians, Maxima-Minima \* Reduction Formulae, Beta and Gamma Functions, Improper Integrals, Differentiation under Integral sign-Lebreitz's Rule, Double and Traple Integrals Ordinary Differential Equations of Order One. Linear, Exact, Equations of First Order but not of First Degre \* Linear Differential Equations of Order One. Linear, Exact, Equations of First Order but not of First Degre \* Linear Differential Equations of Order One Linear, Exact, Equations of First Order but not of First Degre \* Linear Differential Equations of Price Post Degree \* Linear Differential Equations of Differential Equations, Bessel's Functions and Legendre's Polynomials \* Matrices, Determinants, Inverse, Rank, Hermitian and Skew-Hermitian Matrices \* Consistency of General System of Simulaneous Equations, Eigen Nettors, Diagonalizing a Matrix, Vector Spaces \* Vector Differentiation: Gradient, Divergence, Curl and Vector Identities \* Vector Integration: Line integral, Green Lemma Surface Integrals, Stoke's \* Theorem, Divergence Theorem \* Complex Number System: Complex Functions, Differentiation and Analyticity, Conformal and Bilinear Mapping \* Function of Complex Variated head, Analyticity, Conformal and Bilinear Mapping \* Complex Integration: Taylor and Laurent's Series, Residue Theorem, Evaluation of Real Integrals \* Laplace Transformation and Its Inverse, Convolution, Solving Differential Equations by U Transform Unit Step Function, Impulse Function \* Pourier Series, Half-Range Series, Harmonic Analysis \* Fourier Integrals, Fourier Transforms and their Applications \* Differential Equations of Higher Order and Applications \* Difference Equations \* Partial Differential Equations Fourier Series Equations \* Partial Differential Equations \* Numerical Solution to Educations \* Numerical Solution to Educations \* Numerical Solution to Ordinary Differential Equations and Partial Differential Equations \* Struidamental Solution\* \* Numerical

## ADVANCED **ENGINEERING** MATHEMATICS (Vol. II)

Code: BAS203

Size:  $20 \times 30/8$ Pages: 525 Approx.

ISBN: 978-93-83992-41-6 Price: ₹ 595/-

Reprint: 2023

(Agency Book)



Dr. V.P. Mishra Dr. Jvoti Sinha Pratibha Mishra

#### CONTENTS

• Partial Differential Equations and Solution of First Order Equations • Laplace Transformation and its Inverse, Convolution, Applications of L' sform in Solving Differential Equations • Partial Differential Equations of Higher Order and Applications • Fourier Transforms and their Applications • Difference Equations, Z-transform and Solution of Difference Equations by Z-transform • Numerical Solution to Equations in One Variable and Simultaneous Equations • Finite Differences, Divided Differences and Interpolation • Numerical Differentiation and Numerical Integration • Numerical Solution to Ordinary Differential Equations of Order One and Order Two • Numerical Solution to Partial Differential Equations

Specially for Students of Computer Science and Engineering

• Theory of Sets, Relations and Functions, Partial and Total Order Relation, Lattice, Boolean Algebra • Mathematical Logic, Counting Principles and Recurrence Relations • Algebraic Structures • Graph Theory

Answers and Hints to the Problems in Exercises.

#### SOFT SKILL

(The Employability Skills for 21st Centure) Including English Language Lab

Code: BAS105/205

Size:  $20 \times 30/8$ Pages: 425 Approx.

ISBN: 978-93-5014-755-9

Price: ₹ 495/-Reprint: 2024



BvDr. Ritu Soryan

- Applied Grammer and Usage
- · Listening and Speaking Skills
- · Reading and Writing Skills
- Presentation and Interaction Skills
- · Workplace Skills
- Professional Communication Lab (English Language Lab)
- Beyond The Syllabus
- Ouiz Time
- Previous Year Examination papers
- Index.

## **COMMON TO ALL BRANCHES**

## **FIRST YEAR**

## **ENVIRONMENTAL STUDIES**

Code: BAS102/202

Size:  $20 \times 26/8$ Pages: 425 Approx.

ISBN 13: 978-93-5014-385-8 ISBN 10: 81-88458-77-5

Price: ₹ 425/-Reprint: 2024



By Dr. Suresh K. Dhameja

• The Multidisciplinary Nature of Environmental Studies • Natural Resources: Renewable and Non-Renewable Resources • Ecosystems • Biodiversity and Its Conservation • Environmental Pollution • Social Issues and the Environment • Human Population and the Environment • Selective Bibliography • Model Question Papers • Examination Paper • Index.

## **MANUFACTURING PRACTICES** (WORKSHOP PRACTICE)

Code: BWS151/251

Size:  $20 \times 30/8$ Pages: 400 Approx.

ISBN: 978-93-5014-677-4

Price: ₹ 395/-Reprint: 2024



Dr. R.K. Singal

#### CONTENTS

Part-A-1: Manufacturing Methods • Introduction • Casting Methods • Metal Forming Processes • Machining Processes • Joining by Welding

Part-A-2: Advanced Manufacturing Methods • Advanced Machining

Processes • Advanced Welding Methods
Part-B: • CNC Machining • Additive Manufacturing
Part-C: • Fitting Operations • Power Tools

Part-D: • Electrical Engineering • Electronics Engineering

Part-E: • Carpentry Practice • Pattern Making Practice

Part-F: • Plastic Processing Practice • Glass Cutting Practice Part-G: • Mould Making Practice • Casting Practice

Part-H: Welding Processes • Welding Process • Gas Welding • Arc Welding

Brazing and Soldering

Part-I: Workshop Practice • Design and Planning of a Workshop • Machine Shop • Fitting Shop • Carpentry Shop • Electrical and Electronics Shop • Welding Shop • Casting Shop • Smithy Shop • Plastic Moulding and Glass Cutting Shop

• References • Index.

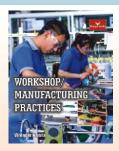
## WORKSHOP/ MANUFACTURING **PRACTICES**

Code: BWS151/251

Size:  $20 \times 30/8$ Pages: 275 Approx.

ISBN: 978-93-83992-42-3

Price: ₹ 325/-Reprint: 2024



BvVirender Narula

#### CONTENTS

• Introduction to Workshop Practice (Manufacturing Methods) • Industrial Safety and Accidents • Engineering Materials • Metal Cutting Processes (Machine Shop) • Fitting Shop and Power Tools • Electrical and Electronic Shop • Carpentary Shop • Welding

Shop • Foundry Shop • Plastic Moulding • Smithy and Forging Shop • Sheet Metal Shop • Index.

## **SECOND YEAR**

## THIRD AND FOURTH SEMESTER

### DATA STRUCTURES USING C

(For Science Based Open Elective) (For CSAI/CSML/CSDS/CSIOT, CS and IT Branches)

Code: BOE306/406/BCS301

Size: 20 × 30/8 Pages: 600 Approx

ISBN: 978-93-5014-056-7

Price: ₹ 625/-Reprint: 2024



By Udit Agrawal

#### CONTENTS

• Introduction to Data Structures • Essentials of C Language
• Introduction to Arrays and Matrices • Linked List • Searching and
Hashing Techniques • Sorting Techniques • Stacks • The Queues •
Iteration and Recursion • Trees • Binary Search Tree
• AVL Tree • B-Tree and its Variants • Graphs • Storage
Management • Model Question Papers • Index.



#### DATA STRUCTURES AND ALGORITHMS USING C

(For Science Based Open Elective)

Code: BOE306/406/BCS301

Size:  $20 \times 30/8$  Pages: 775 Approx.

ISBN 13: 978-81-88458-81-3

ISBN 10: 81-88458-81-3

Price: ₹ 825/-Reprint: 2024

# DATA STRUCTURES and ALGORITHMS USING C

By Nitin Upadhyay

#### CONTENTS

#### Part-1

- Introduction to Data Introduction to Program Design Growth of Function Analysing Algorithm Control Structures
- Recurrences Quick Reference C-I Quick Reference C-II • Quick Reference C-III • Quick Reference C-IV • Quick Reference C-V

#### Part-II

• Pointer • Linked Lists • Stack • Sorting in Linear Time • Trees • Heap • Searching and Advanced Search Tree • Graphs • String Matching • Augmenting Data Structure • NP-Completeness

#### Part-III

- Data Structures & Algorithm Using C
- $\bullet Appendices \bullet Index.$

## DATABASE MANAGEMENT SYSTEM

(For Science Based Open Elective)

Code: BOE307/407

Size: 20 × 30/8 Pages: 400 Approx.

ISBN: 978-81-89757-78-6

Price: ₹ 495/-Reprint: 2024

## DATABASE MANAGEMENT SYSTEM

By P.K. Yadav

#### CONTENTS

- Introduction to DBMS Data Modelling Using the E-R- Model
- Relational Data Model and Language Introduction to SQL
- Normalization Transaction Processing Concepts • Serializability and Deadlock Handing • Concurrency Control
- Techniques Competative Quiz A Practical Approach to SQL
- Tutorial Exercises Previous Year Question Papers Index.

# COMPUTER ORGANIZATION & ARCHITECTURE

(For CS and Related Branches)

Code: BCS302

Size:  $20 \times 30/8$ Pages: 350 Approx.

ISBN: 978-93-5014-557-9

Price: ₹ 395/-Reprint: 2024



By Dr. Lalit K. Arora Anjali Arora

#### CONTENTS

- Basics of Computer Organization and Architecture Data Representation in Computer System • Computer Arithmetic
- Boolean Algebra and Digital Logic Register Transfer Logic
- Processor Organization Computer Instructions Set Architecture • Memory Organization • Input and Output Organization • Assembly Language • Pipelining • Objective Type Questions •

Model Question Papers • References • Index.

## THIRD AND FOURTH SEMESTER SECOND YEAR

## CYBER SECURITY

(Common to all branches)

Code: BCC301/401

Size:  $20 \times 30/8$ Pages: 325 Approx.

ISBN: 978-93-5014-774-0

Price: ₹ 495/-First Edition: 2024



By
Praveen Kumar Tripathi
Niraj Kumar Tiwari

#### CONTENTS

- Introduction to Cyber Crime
- Cyber Crime
- Tools and Methods used in Cybercrime
- Understanding Computer Forensics
- Introduction to Security Policies and Cyber Laws

Index

per New Syllabus

## PYTHON PROGRAMMING

(Common to all branches)

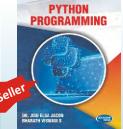
Code: BCC302/402

Size: 20× 30/8

Pages: 375 Approx. ISBN: 978-93-5014-737-5

Price: ₹ 465/-

Second Edition: 2024



By
Dr. Jisu Elsa Jacob
Bharath Viswam S

#### CONTENTS

- Introduction to Programming
- Introduction to Python
- Data Types and Expressions in Python
- · Conditional and Control Flow Statements in Python
- Iteration Statements in Python
- Functions
- Strings and Lists
- Tuples, Sets and Dictionaries
- Files
- · Modules and Packages
- OOP-Concepts, Classes and Objects
- Exception Handling
- · Lab Questions for Python Programming
- Index.

COMPUTER
ARCHITECTURE
AND ORGANIZATION

(For CSAI/CSML/CSDS/CSIOT, CS and IT Branches)

Code: BCS302

Size:  $20 \times 30/8$  Pages: 400 Approx.

ISBN: 978-93-5014-110-6

Price: ₹ 450/-Reprint: 2024



By Pankaj Sharma

#### CONTENTS

• Introduction of Design Methodology • Processor Level Design and Processor Basic • Data Representation • Instruction Set • Data Path Design • Control Design • Memory Organization • Input/Output Organization • Introduction to 8085 Microprocessor • Glossary • Appendices • Index.

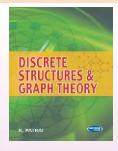
## DISCRETE STRUCTURES & GRAPH THEORY

(For CSAI/CSML/CSDS/CSIOT, CS and IT Branches)

Code: BCS303

Size: 20 × 26/8 Pages: 575 Approx. ISBN: 978-93-5014-560-9

Price: ₹ 595/-Reprint: 2024



*By* K. Patrai

#### CONTENTS

• Set Theory • Relation • Function • Algebraic Structures • Rings and Fields • Posets, Hasse Diagrams and Lattices • Boolean Algebra • Propositional Calculus and Formal Logic • Methods of Proof • Graphs • Euler and Hamiltonian Graphs • Trees • Planar Graphs • Matrix Representation of Graphs • Colouring of Graphs • Finite State Machines • Combinatorics • Examination Papers

Index.

## **SECOND YEAR**

## THIRD AND FOURTH SEMESTER

## **OPERATING SYSTEMS**

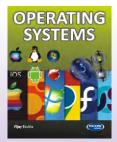
(For CSAI/CSML/CSDS/CSIOT, CS and IT Branches)

Code: BCS401

Size:  $20 \times 30/8$ Pages: 350 Approx.

ISBN: 978-81-89757-59-5

Price: ₹ 425/-Reprint: 2024



BvVijay Šhukla

#### CONTENTS

• Overview of Operating Systems • Operating System Structure Process Management • CPU Scheduling • Process Synchronization and Interprocess Communication • Deadlocks Memory Management • Virutal Memory • Input/Output Management and Disk Scheduling • File System Management • Protection and Security • Case Studies: Linux and Windows NT • Introduction to Distributed Systems • Distributed File System • Previous Year Examination Papers • Index.

#### **Introduction to** AUTOMATA THEORY & FORMAL LANGUAGES

(For CSAI/CSML/CSDS/CSIOT, CS and IT Branches)

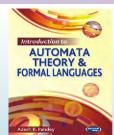
Code: BCS402

Size:  $20 \times 26/8$ Pages: 375 Approx.

ISBN 13: 978-81-88458-47-9

ISBN 10: 81-88458-47-3 Price: ₹ 395/-

Reprint: 2024



By Adesh K. Pandey

#### CONTENTS

- Introduction to Concept of Automata Finite Automata Automata with Output Regular Expression and Languages • Properties of Regular Languages • Context-Free Grammars and Languages • Simplified Context-Free Grammar and Its Normal
- Form Pushdown Automata Properties of Context-Free Languages Turing Machine Extension of Turing Machine
- · Recursive Function Theory · The Chomsky Hierarchy • Tractable and Intractable Problems • Previous Year Examination Papers • Index.

## **OBJECT ORIENTED**

**SYSTEM** WITH

(For CS and Related Branches)

Code: BCS403

Size:  $20 \times 30/8$ Pages: 625 Approx. ISBN: 978-81-89757-57-1

Price: ₹ 795/-Reprint: 2024



BvLalit Arora

#### CONTENTS

Part-I: Object-Oriented Modeling & Design

- Introduction Object Modeling Technique (OMT) Object Modeling • Advance Concepts of Object Modeling • Dynamic Modeling • Functional Modeling • OMT Methodology. Part-II: JAVA Programming
- Introduction to JAVA Beginning with JAVA Programs Basic Java Programs • Methods and Classes • Inheritance, Packages & Interfaces • Advance Programming Concepts • HTML and JAVA Applet • JAVA Library • JAVA AWT • Event Handling • Software Development using Java • JDBC • Internet
- Appendices
- · Bibliography
- Previous Year Question Papers
- Index.

## **PRINCIPLES ELECTRONICS**

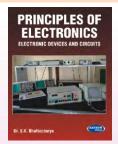
ELECTRONIC DEVICES AND CIRCUITS (For Science Based Open Elective)

Code: BOE308/408

Size:  $20 \times 30/8$ Pages: 450 Approx.

ISBN: 978-93-5014-723-8

Price: ₹ 495/-Reprint: 2022



BvDr. S.K. Bhattacharya

#### CONTENTS

• Electronic Components and Voltage Sources • Semiconductor Physics • Semiconductor Diode • Transistors • Single Stage Small Signal Transistor Amplifier • Multistage Transistor Amplifier · Power Amplifiers · Tuned Amplifier · Feedback Amplifiers · Sinusoidal Oscillators · Operational Amplifiers and their Applications • Waveshaping Circuits • Filters and Regulated Power Supply • Photoelectronic Devices and their Applications · Phase Locked Loop (PLL) and Voltage Controlled Oscillator (VCO) • Digital Techniques • Time Base Generators and Cathode Ray Oscilloscope (CRO) • Thyristors and Unijunction Transistor • Laboratory Experiments • Index.

#### **SECOND YEAR** THIRD AND FOURTH SEMESTER

## **DIGITAL** ELECTRONICS

(For Science Based Open Elective)

Code: BOE310/410

Size:  $20 \times 30/8$ Pages: 575 Approx.

ISBN: 978-81-907386-7-5

Price: ₹ 695/-Reprint: 2024



Bv Dr. Sanjay Sharma

#### CONTENTS

Unit-I: • Digital System and Binary Numbers • Gate Level Minimization.

Unit-II: • Combinational Logic.

Unit-III : • Synchronous Sequential Logic: Flip-Flops • Synchronous Sequential Logic: Shift Registers • Counters and Analysis and Synthesis of Synchronous Sequential Circuits.

Unit-IV: • Introduction to Memories • Programmable Logic Devices • Design at the Register Transfer Level: ASMs

Unit-V: • Asynchronous Sequential Logic • Introduction to Hazards

• Previous Year Question Papers

• Index.

## **ELECTRONIC DEVICES AND CIRCUITS**

(For Science Based Open Elective)

Code: BOE308/408

Size:  $23 \times 36/8$ Pages: 1150 Approx.

ISBN 13: 978-93-5014-314-8

ISBN 10: 81-85749-75-2

Price: ₹ 925/-Reprint: 2024

Bv J.B. Gupta

#### CONTENTS

Section I (Basic Concepts and Semiconductor Physics) • Introductory Concepts • Electron
Dynamics • Electron Emission • Semiconductor Physics

Section II (Basic Concepts Semiconductor Physics)

II (

Regulated and Switching Power Supplies
 Section VII (Digital Electronics) - Number Systems and Codes
 Logic Gates and Boolean Algebra
 Logic Gruts
 Digital Logic Families
 Digital-To-Analog and Analog-To-Digital Converters

Section VIII (Electronic Measurements and Instrumentation) • Electronic (Analog as Well as Digital) Instruments • Cathode Ray Oscilloscope • Transducers • Objective Type Questions • Appendices • Index.

#### Fundamentals of **ELECTRONIC DEVICES**

(For ECE Branch)

Code: BEC301

Size:  $20 \times 30/8$ Pages: 425 Approx.

ISBN: 978-93-80027-74-6

Price: ₹ 450/-Reprint: 2024

# Fundamentals of ELECTRONIC DEVICES

ByJ.B. Gupta

#### **CONTENTS**

Unit-I: Crystal Properties and Charge Carriers in Semiconductors

· Semiconductor Materials and Crystal Properties · Energy Bands and Charge Carriers in Semiconductors

Unit-II: Excess Carriers in Semiconductors

· Excess Carriers in Semiconductors.

**Unit-III: Junction Properties** 

• Junction Properties • Junction Properties (Continued).

**Unit-IV: Transistors** 

• Bipolar Junction Transistors (BJTs) • Field-Effect Transistors.

Unit-V: Some Special Devices

• Photonic Devices • Negative Conductance Microwave Devices

• Power Devices • Appendices • Model Test Papers • University

Examination Paper • Index.

#### A Text book of **ELECTRONIC ENGINEERING**

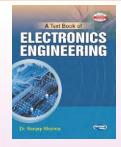
(For Science Based Open Elective)

Code: BOE309/409

Size:  $20 \times 30/8$ Pages: 575 Approx.

ISBN: 978-93-5014-438-1

Price: ₹ 625/-Reprint: 2024



ByDr. Sanjay Sharma

#### CONTENTS

Unit One: • Semiconductor Materials • Semiconductor Diodes • Diode Applications • Special Purpose Two Terminal Devices

Unit Two: • Bipolar Junction Transistor • DC Biasing BJTs

 Single Stage Transistor Amplifier • Field Effect Transistor Unit Three: • Operational Amplifier

Unit Four: • Electronic Instruments

Unit Five: • Fundamentals of Communication Engineering: Introduction • Fundamentals of Communication Engineering: Amplitude Modulation • Fundamentals of Communication Engineering: Angle Modulation

Model Question Papers

• Index

## **SECOND YEAR**

## THIRD AND FOURTH SEMESTER

## **DIGITAL SYSTEMS DESIGN**

(For EC and Related Branches)

Code: BEC302

**NETWORK** 

THEORY

(For EC and Related Branches)

Code: BEC303

Size:  $20 \times 30/8$ Pages: 350 Approx. ISBN: 978-93-5014-Price: ₹ 425/-

Edition: 2024

Size:  $20 \times 30/8$ Pages: 650 Approx. ISBN: 978-81-906919-5-6

Price: ₹ 795/-

Reprint: 2024



Dr. Sanjay Sharma Asheesh Tiwari

#### CONTENTS

# NETWORK THEORY

By Dr. K.M. Soni

#### CONTENTS

• Introduction to Circuit Elements • Signals and Waveform Synthesis • Circuit Analysis by Classical Method • Phasor Algebra and AC Circuits • Single and Three Phase Alternating Currents • Laplace Transform and its Applications • Network Theorems • Two Port Networks • Network Functions and Responses • Network Synthesis • Filter Synthesis • Fourier Series • Fourier Transform and its Applications • Magnetically Coupled Circuits • Graph Theory • Appendices • Appendies • Experiments

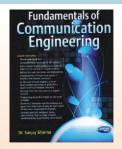
## **Fundamentals of** COMMUNICATION

ENGINEERING (For EC and Related Branches)

Code: BEC401

Size:  $20 \times 30/8$ Pages: 550 Approx ISBN: 978-93-5014-238-7

Price: ₹ 695/-Reprint: 2024



BvDr. Sanjay Sharma

#### **CONTENTS**

#### Unit I

• Introduction • Amplitude Modulation • Single Sideband Modulation • Radio Receivers.

• Angle Modulation • Noise • Noise Analysis in Communication Systems.

· Analog Pulse Modulation · Digital Transmission · Digital Modulation Techniques.

#### Unit IV

• Radio Wave Propagation • Satellite Communication • Wireless Systems and Standards.

#### **Unit V**

• Television • Fibre Optical Communication • Index.

## **ANALOG** INTEGRATED CIRCUITS

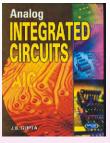
(For EC and Related Branches)

Code: BEC402

Size:  $20 \times 30/8$ Pages: 400 Approx.

ISBN: 978-81-89757-75-5

Price: ₹ 495/-Reprint: 2024



BvJ.B. Gupta

## CONTENTS

Unit-I: IC Op-Amp Applications • Differential Amplifiers • Operational Amplifiers and Their Parameters • Op-Amps with Negative Feedback • Linear Applications of Op-Amps

Unit-II: Waveform Generators • Waveform Generators

· Digitally Controlled Frequency Synthesizers

Unit-III: Active Filters • Active Filters.

Unit-IV: Non-Linear Circuits . Non-Linear Circuits

• Operational Transconductor Amplifier (OTA). Unit-V: Voltage Regulators • Voltage Regulators

Appendices

• Technical University Question Papers

Index.

#### **SECOND YEAR** THIRD AND FOURTH SEMESTER

## SIGNALS AND **SYSTEMS**

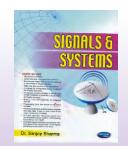
(For EC and Related Branches)

Code: BEC403/BEE303

Size:  $20 \times 30/8$ Pages: 600 Approx.

ISBN: 978-93-5014-013-0 Price: ₹ 725/-

Reprint: 2024



BvDr. Sanjay Sharma

#### CONTENTS

Unit-I: • Signals.

Unit-II: • The Laplace Transform (LT) • The Z-Transform.

Unit-III: • Continuous-Time Fourier Transform (CTFT)

· Discrete-Time Fourier Transform (DTFT).

Unit-IV: • Systems • Correlation, ESD and PSD.

Unit-V: • Time and Frequency Domain Analysis of Systems

• Previous Year Question Papers • Index.

## **SIGNALS AND** SYSTEMS

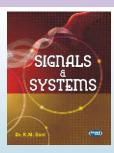
(For EC and Related Branches)

Code: BEC403/BEE303

Size:  $20 \times 30/8$ Pages: 425 Approx

ISBN: 978-81-89757-29-8

Price: ₹ 495/-Reprint: 2023



BvDr. K.M. Soni

#### CONTENTS

- Signals
- Laplace Transform and its Applications
- z-Transform and its Applications
- Fourier Series
- Fourier Transform and its Applications
- Fourier Analysis of Discrete-Time Signals and Systems
- Linear Time Invariant Systems
- Continuous Time Convolution and Correlation Time
- and Frequency Domain Analysis of Systems
- Sampling
- Appendices
- Index.

#### Basics of **SIGNALS & SYSTEMS**

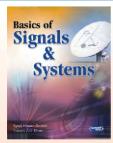
(For EE and Related Branches)

Code: BEE303

Size:  $20 \times 30/8$ Pages: 275 Approx.

ISBN: 978-93-5014-479-4

Price: ₹ 325/-Reprint: 2024



By**Syed Hasan Saeed** Faizan Arif Khan

#### CONTENTS

Introduction to Continuous Time Signals and Systems

Analogous System • The Laplace Transform • Fourier Series
 Fourier Transform • State Variable Analysis • Z-Transform

• Previous Year Question Papers • Index.

#### **ELECTRICAL MEASUREMENTS** AND MEASURING INSTRUMENTS (For EE and Related Branches)

Code: BEE302

Size:  $20 \times 30/8$ Pages: 725 Approx

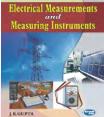
ISBN 13: 978-81-88458-26-4 ISBN 10: 81-88458-26-0

Price: ₹ 795/-

Reprint: 2024

BvJ.B. Gupta





Section-I: Philosophy of Measurement • Measurements and Measurement Systems • Units and Standards of Measurements • Errors in Measurements and their Analysis • Measuring System Fundamentals Section-II: General Theory of Analog Measuring Instruments

· Analog Ammeters and Voltmeters · Extension of Instrument Range · Analog Measurement of Power and Wattmeters · Measurement of

Energy and Energy Meters • Measurement of Speed, Frequency and Power Factor

Section-III: Potentiometers and Measurement of Parameters

· Potentiometers · Measurement of Resistance · Localization of Cable Faults • AC Bridges

Section-IV: Magnetic Measurements and Signal Analyzers • Magnetic Measurements • Signal Analyzers

Section-V: Electronic Measurements and Instrumentation • Electronic Instruments • Cathode Ray Oscilloscope • Digital Instruments • Digital Devices • Transducers • Objective Type Question

## **SECOND YEAR**

## THIRD AND FOURTH SEMESTER

## ELECTRIC AND HYBRID VEHICLE

(Green and Sustainable Transportation)
(For Science Based Open Elective)

Code: BOE301/401

Size:  $20 \times 30/8$ Pages: 300 Approx.

ISBN: 978-81-963589-0-7

Price: ₹ 395/-

Second Edition: 2024



By Dr. Nitesh Tiwari Dr. Shekhar Yadav

#### CONTENTS

- Introduction to Electric Vehicles Electric Motor Drives for EV Application EV Battries and Battery Management System
   Charging System Design Technology for EV Applications
   Planning for EV Charging Facility Energy Storage AC Motor Drive Percentaging Braking System Energy Management
- Planning for EV Charging Facility Energy Storage AC Motor Drive • Regenerative Braking System • Energy Management Strategy • Hybrid Electric Vehicle • Mechanical Design of a Vehicle • Previous Examination Papers • Index.

# A Text Book on ENERGY SCIENCE AND ENGINEERING

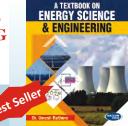
(For Science Based Open Elective)

Code: BOE304/404

Size:  $20 \times 30/8$ 

Pages: 350 Approx. ISBN: 978-93-5014-743-6

Price: ₹ 395/-Reprint: 2023



By Dr. Umesh Rathore

#### CONTENTS

• Energy and its Usages • Nuclear Energy • Solar Energy • Conventional & Non-Conventional Energy Sources • Systems and Synthesis • Index.

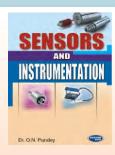
## SENSORS AND INSTRUMENTATION

(For Science Based Open Elective)

Code: BOE305/405

Size: 20 × 26/8 Pages: 400 Approx. ISBN: 978-93-5014-483-1

Price: ₹ 395/-Reprint: 2024



By Dr. O.N. Pandey

#### CONTENTS

- Introduction Displacement Sensors and Strain Gauges
   Pressure and Temperature Sensors Flow Sensors and Level Sensors Signals, Bridges and Processing Circuits Digital Processing of Analog Signal Display Devices Recorders
   Virtual Instrumentation Data Transmission and Telemetry
- Measurement Errors Voltmeters and Multimeters DC and AC Bridge Circuits Signal Analysis Relays, Circuit Breakers and Intelligent Electronic Sensors Metrology and Inspection Supplementary on Pressure Measurements Supplementary on Flow Measurements Supplementary on Temperature Measurements Supplementary on Level Measurements
- Process Industries
   Chemical Processes
   Food Processing
   Environmental Analysis and Monitoring
   Glossaries
- Appendices Sample Question Papers References Index.

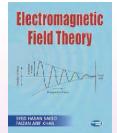
## ELECTROMAGNETIC FIELD THEORY

(For EE and Related Branches)

Code: BEE301

Size: 20 × 30/8 Pages: 350 Approx. ISBN: 978-93-5014-561-6

Price: ₹ 395/-Reprint: 2024



*By* Syed Hasan Saeed Faizan Arif Khan

- Vectors Electrostatics Electric Field in Materials • Magnetostatics & Magnetic Field in Materials • Electromagnetic Waves • Transmission Lines • Objective Type Questions
- Previous Year Question Papers Index.

## THIRD AND FOURTH SEMESTER SECOND YEAR

## ELECTROMECHANICAL ENERGY CONVERSION-I

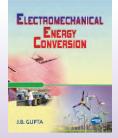
(For EE and Related Branches)

Code: BEE402

Size:  $20 \times 30/8$ Pages: 500 Approx.

ISBN: 978-93-5014-012-3

Price: ₹ 525/-Reprint: 2024



*By* J.B. Gupta

#### CONTENTS

Unit-I: Principles of Electromechanical Energy Conversion

Magnetic Circuits and Induction
 Principles of Electromechanical Energy Conversion
 Basic Concepts of Rotating Electrical Mechines

Unit-II: DC Machines

• Construction of DC Machines • Armature Reaction and Communitation in DC Machines • Operating Characteristics and Applications of DC Generators

Unit-III: DC Machines (Continued)

- Operating Characteristics and Applications of DC Motors
- Speed Control, Starting and Testing of DC Machines

Unit-IV: Single Phase Transformer
• Single Phase Transformers

**Unit-V: Three Phase Transformers** 

Unit-V: Three Phase Tr

## NETWORK ANALYSIS AND SYNTHESIS

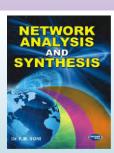
(For EE and Related Branches)

Code: BEE403

Size: 20 × 30/8 Pages: 575 Approx

ISBN 13: 978-81-88458-24-0 ISBN 10: 81-88458-24-4

Price: ₹ 595/-Reprint: 2024



By Dr. K.M. Soni

#### CONTENTS

- Introduction Signals and Waveform Synthesis Graph Theory
   Transient Circuit Analysis Network Theorems Two Port
  Networks Network Functions Stability and Responses
- Network Synthesis Filters Appendix Previous Year Question Paper Bibliography Index.

# A Textbook of MATERIAL SCIENCE

(For Science Based Open Elective)

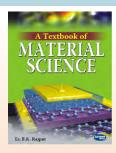
Code: BOE303/403

Size:  $20 \times 30/8$ Pages: 625 Approx.

ISBN 13: 978-81-89757-35-9

ISBN 10: 81-89757-35-0

Price: ₹ 695/-Reprint: 2024



*By* Er. R.K. Rajput

#### CONTENTS

Unit-I • Introduction: Perspective and Importance of Engineering Materials • Atomic Models Periodic Table and Chemical Bonding • Crystallography • Imperfections (Defects) in Solids.

**Unit-II** • Mechanical Properties and Testing • Microstructural Examination-Identification of Metals and Alloys • Phase Diagram and Equilibrium Diagram.

**Unit-III** • Ferrous Metals and Alloys • Heat Treatment • Non-Ferrous Metals and Alloys .

**Unit-IV** • Magnetic Properties • Electric Properties • Diffusion in Solids.

Unit-V • Ceramics • Polymers/Plastics and Composite Materials • Performance of Materials in Service (Fracture, Fatigue and Corrosion and its Control) • Laboratory Practicals • Short Answer Questions • Question Papers • Index.

## AUTOMATION AND ROBOTICS

(For Science Based Open Elective)

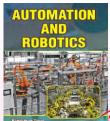
Code: BOE302/402

Size:  $20 \times 30/8$ Pages: 275 Approx.

ISBN: 978-93-5014-246-2

Price: ₹ 495/-

Third Edition: 2024



*By* Khushdeep Goyal Deepak Bhandari

#### CONTENTS

• Automation • Robotics • Robot Elements • Robot Coordinate System and Manipulator Kinematics • Robot Control • Robot Programming • Electrical and Electronic Controls • Computer Integrated Manufacturing Systems • Industrial Applications • Index.

As Per New Syl

## SECOND YEAR THIRD AND FOURTH SEMESTER

#### **POLYMER SCIENC**

&

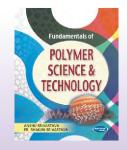
#### **TECHNOLOGY**

(For Science Based Open Elective)

Code: BOE311/411

Size: 20 × 30/8 Pages: 300 Approx. ISBN: 978-93-5014-291-2

Price: ₹ 295/-Reprint: 2024



By Anshu Srivastava Er. Shakun Srivastava

#### CONTENTS

• Introduction, Nomenclature and Classification • Kinetics of Polymerization • Polymer Characterization and Analysis • Chemical and Geometrical Structure of Polymer Molecules and Composites • Organic Polymers • High Performance Polymers • Polymer Processing of High Performance Polymers • Molecular Weight of Polymers • Glass Transition Temperature and Crystallinity of Polymers • Chemistry of Polymerization • Coordination and Co-polymerization • Thermo-plastics and Thermosets or Thermosetting Resin • Elastomers or Rubbers and Silicon Polymers • Natural Polymers • Application of Polymers • Appendices • References • Question Papers • Index.

# LASER SYSTEMS AND APPLICATIONS

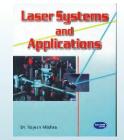
(For Science Based Open Elective)

Code: BOE312/412

Size: 20 × 30/8 Pages: 250 Approx

ISBN: 978-93-80027-79-1

Price: ₹ 295/-Reprint: 2024



By Dr. Rajesh Mishra

#### CONTENTS

- Review of Elementary Quantum Mechanics
- Introduction to Laser
- Laser Systems
- Applications of Laser-I
- Applications of Laser-II
- Model Question Papers
- Previous Year Question Paper
- Index.

## ENGINEERING MECHANICS

(Statics & Dynamics)

(For ME and Civil Branches)

Code: BCE031

Size:  $20 \times 30/8$ Pages: 800 Approx.

ISBN 13: 978-93-5014-292-9

ISBN 10: 81-88458-16-3

Price: ₹ 795/-Reprint: 2022



By Dr. D.S. Kumar

#### CONTENTS

**Dynamics: Kinematics and Kinetics** 

- Rectilinear and Curvilinear Motion Projectiles Rotation and General Plane Motion • Simple Harmonic Motion and Vibrations
- Impact: Collision of Elastic Bodies
   Kinetics: Impulse, Momentum, Work and Energy
   Kinetics of Rigid Body (Rotary Motion)
   Power Transmission: Methods and Devices
   Index.

## ENGINEERING MECHANICS

(With Experiments)

(For ME and Civil Branches)

Code: BCE031

Size:  $20 \times 30/8$ Pages: 600 Approx.

ISBN 13: 978-93-5014-320-9

ISBN 10: 81-88458-23-6

Price: ₹ 695/-Reprint: 2024



Dr. D.S. Kumar

#### CONTENTS

• Basic Concepts • Co-Plannar Forces • Moment of Force and Parallel Forces • Friction • Shear Force and Bending Moment • Plane Trusses and Frams • Centroid and Centre of Gravity • Moment of Inertia: Area and Mass • Rectilinear Motion • Rotation and General Plane Motion • Kinetics: Impulse, Momentum, Work and Energy • Kinetics of Rotary Motion • Simple Stresses and Strains • Bending Stresses in Beams • Torsion of Circular Shafts • Appendices • Experiments • Objective Type Questions • Previous Year Question Paper • Index.

## THIRD AND FOURTH SEMESTER SECOND YEAR

#### **THERMODYNAMICS**

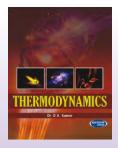
(For ME and Related Branches)

Code: BME301

Size:  $20 \times 30/8$ Pages: 575 Approx.

ISBN: 978-93-80027-66-1

Price: ₹ 595/-Reprint: 2024



*By* Dr. D.S. Kumar

#### CONTENTS

- Basic Concepts & Definitions Temperature and Zeroth Law of Thermodynamics • Transient Energies: Work and Head • Ideal Gases and their Basic Laws • First Law of Thermodynamics
- Steady Flow Energy Equation (Flow Processes and 1st Law)
   Second Law of Thermodynamics
   Entropy
   Availability and Irreversibility
   Mixture of Gases
   Steam and its Properties
- Irreversibility Mixture of Gases Steam and its Properties Thermodynamic Vapour Cycles Thermodynamic Relations
- Refrigeration Systems and Psychrometry Previous Year Question Papers Index.

## FLUID MECHANICS

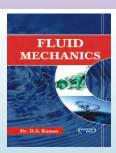
(For ME & Related Branches)

Code: BME302

Size:  $20 \times 30/8$ Pages: 525 Approx.

ISBN: 978-93-80027-65-4

Price: ₹ 595/-Reprint: 2024



By Dr. D.S. Kumar

#### **CONTENTS**

- Introduction Physical Properties of Fluids Fluid Statics Fluid Kinematics • Fluid Dynamics (Momentum and Energy Principles)
- Dimensional Analysis and Model Similitude 
   Potential Flow
- Laminar Viscous Flow Turbulence and Turbulent Flow through Pipes • Laminar and Turbulent Boundary Layer Flows • Flow Around Immersed Bodies: Drag and Lift • Fluid Meaurements
- Previous Year Question Papers Index.

## MANUFACTURING PROCESSES

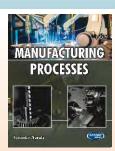
(For ME and Related Branches)

Code: BME403

Size:  $20 \times 30/8$ Pages: 400 Approx.

ISBN: 978-81-89757-56-4

Price: ₹ 450/-Reprint: 2024



*By* Virender Narula

#### CONTENTS

- Introduction to Manufacturing Processes Industrial Safety • Properties of Engineering Materials • Ferrous Metals • Metal Casting Processes (Foundry) • Special Casting Processes (Contemporary) • Hot Working Processes • Cold Working Processes (Sheet Metal Operations) • Bench Work and Fitting
- Processes (Sheet Metal Operations) Bench Work and Fitting
   Welding (Metal Joining Process) Metal Cutting Processes
   Plant Layout Appendices Previous Years Examination Papers
- Index.

## APPLIED THERMODYNAMICS

(For ME and Related Branches)

Code: BME401

Size: 20 × 30/8 Pages: 525 Approx.

ISBN: 978-93-5014-021-5

Price: ₹ 595/-Reprint: 2024





*By* Dr. D.S. Kumar

#### CONTENTS

• Basic Concepts and Laws of Thermodynamics • Availability and Irreversibility • Thermodynamic Relations • Fuels and Combustion • Steam and its Properties • Steam Boilers, Mountings and Accessories • Boiler Draught and Boiler Performance • Vapour Power Cycles • Steam Engines • Flow Through Nozzles • Steam Turbines • Steam Condensers • Gas Turbines and Jet Propulsion • Previous Year Question Papers • Index.

## **SECOND YEAR**

## THIRD AND FOURTH SEMESTER

#### **SURVEYING**

(Fundamentals and Advance Practices)

(For Civil Branch)

Code: BCE302

Size:  $20 \times 30/8$ Pages: 500 Approx.

ISBN: 978-93-5014-655-2

Price: ₹ 495/-

Second Edition: 2022



Dr. Narayan R. Chandak Prof. Hemraj R. Kumawat

- Chain and Compass Surveying
   Tacheometry
   Curves
   Plane Table Survey and Minor Instruments
   Triangulation
   Triangulation
   Adjustment
- Photogrammetry
   Hydrographic Survey
   Remote Sensing
   Special Survey
   Computation of Area and Volume
- Appendix Experiments Index.

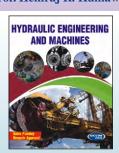
## HYDRAULICS **ENGINEERING** AND MACHINES

(For Civil Branch) Code: BCE403

Size:  $20 \times 30/8$ Pages: 300 Approx.

ISBN: 978-93-5014-752-8

Price: ₹ 395/-First Edition: 2024



Bv**Annu Pandey Deepak Agarwal** 

#### CONTENTS

• Introduction to Open Channel Flow • Energy Depth Relationship • Rapidly Varied Flow • Impluse Momentum Equation (Hydraulic Machines) • Rotodynamic Machines • Experiments • Examination Paper • References • Index .

## A Course in **CIVIL ENGINEERING DRAWING**

(For Civil Branch)

Code: BOE314/414

Size:  $23 \times 36/8$ Pages: 575 Approx.

ISBN: 978-93-5014-272-1

Price: ₹ 525/-Reprint: 2024



V.B. Sikka

#### CONTENTS

· Draughtsmanship and Engineering Drawing · Conventional Representations, Scale and Abbreviations

#### Part-I: Building Details

• Masonry • Foundations, Plinth, Damp Proof and Basement • Floors (Ground and Upper Floors) • Forms of Arches, Centering and Lintels • Partition Walls • Joints in Carpentry • Doors and Windows • Roofs (Sloping and Flat) • Retaining Walls • Framed Structures • R.C.C. Structures • Stairs and Staircases • Isometric and Perspective Views • Building Drawing, Planning and Design

Part-II: Public Health Engineering

Public Health Engineering

#### Part-III: Irrigation

- Irrigation Drawing Swimming Pool Wells and Tube-wells
- · Vastu Shastra · Bricks "Jali" Work or Bricks Trellis

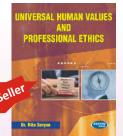
## UNIVERSAL HUMAN VALUE AND PROFESSIONAL ETHICS

(Common to all branches)

Code: BVE301/401

Size:  $20 \times 30/8$ Pages: 325 Approx. ISBN: 978-93-5014-746-7

Price: ₹ 325/-First Edition: 2022



Dr. Ritu Soryan

Value Education

- Understanding Value Education Self-Exploration Process for Value Education
   Human Aspirations Prosperity and Happiness Understanding and Living in Harmony at Various Levels
- Part—2: Harmony in Myself Understanding Harmony in The Human Being

   Understanding Human Being as a Co-Existence of The Sentient 'I' and the Material
- $\label{eq:body-sukh} ^*Body" \bullet Understanding the need of self (I) and body-Sukh and Suvidha \bullet Understanding the Body as an Instrument of Self (I) \bullet Understanding the Characteristics and Activities$
- the body as an instrument of Self (1)\* Understanding the Characteristics and Activities of 'l' and Harmony in 'l' with Body Part—3: Family & Society Understanding Harmony in Various Relations Understanding Harmony in Family Relations Values in Human–Human Relations Understanding Harmony in the Society Vision of Universal Harmonious Society Part—4: Harmony in the Nature and Existence—Whole Existence as Co-existence Understanding Harmony in Nature Interconnectedness and Mutual Pullifument in Nature Understanding Existence as Co-existence and Harmony at all Levels of Existence.
- Part—5: Implementation of Holistic Harmony on Professional Ethics

   Natural Acceptance of Human Values & Ethical Human Conduct Professional Ethics
- and Competence Values and Business .... Code of Conduct Transition to Universal... Human Order

## THIRD AND FOURTH SEMESTER

## **SECOND YEAR**

## **TECHNICAL** COMMUNICATION

(Common to all branches)

Code: BAS301/401 just Relea

Size:  $20 \times 30/8$ Pages: 325 Approx. ISBN: 978-93-5014-782-5

Price: ₹ 595/-

Second Edition: 2024



BvDr. Ritu Soryan

#### CONTENTS

- Fundamentals of Communication and Voice Dynamics
  - Communication Skills for Career Building
- · Communication Skills for Presentation: Writing, Designing and
- Communication and Leadership Development
- Digital Communication and Personality Making
- Index.

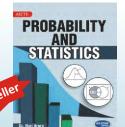
## **PROBABILITY** AND **STATISTICS**

(Common to all branches)

Code: BAS302/BAS402

Size:  $20 \times 30/8$ Pages: 600 Approx. ISBN: 978-93-5014-475-6

Price: ₹ 650/-Reprint: 2024



Dr. Hari Arora

#### CONTENTS

• Basic Probability • Continuous Probability Distribution • Bivariate Distribution • Basic Statistics • Curve Fitting • Applied Statistics • Hypothesis Testing-Small Samples • Partial Differential Equations • Appendix • Index.

#### NUMERICAL METHODS

FOR

ENGINEERS AND SCIENTISTS

(Common to all branches)

Code: BAS302/BAS402

Size:  $20 \times 30/8$ Pages: 550 Approx.

ISBN: 978-93-5014-729-0

Price: ₹ 495/-Reprint: 2024



Dr. Hari Arora

Errors and Approximations in Numerical Computations · Solution of Algebraic and Transcendental Equations · Matrix and Determinants • Matrix Inversion and Eigen Value Problem

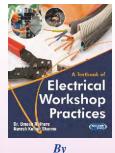
• Curve Fitting • Calculus of Finite Differences • Interpolation with Equal and Unequal Intervals • Numerical Differentiation and Integration • Numerical Integration • Numerical Solution of Ordinary Differential Equations • Numerical Solution of Partial Differential Equations • Index.

## A Textbook of **ELECTRICAL WORKSHOP PRACTICE**

Code: BEE353

Size:  $20 \times 30/8$ Pages: 350 Approx. ISBN: 978-93-5014-695-8

Price: ₹ 395/-Reprint: 2024



**Dr. Umesh Rathore Naresh Kumar Sharma** 

- · Electrical Safety
- Tools and Equipment in Electrical Workshop
- · Electrical Wiring Systems
- · Earthing System in Electrical Installation
- Installation, Maintenance and Testing of Electrical Machines and Equipment
- Practical Jobs/Exercises in Electrical Workshop
- Index.

## **SECOND YEAR**

## THIRD AND FOURTH SEMESTER

## **OBJECT ORIENTED PROGRAMMING** WITH JAVA

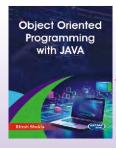
(For CS, IT and Related Branches)

Code: BCS403

Size:  $20 \times 30/8$ Pages: 300 Approx. ISBN: 978-93-5014-

Price: ₹

First Edition: 2024



BvRitnesh Shukla

# Releasing Shortly

## **OPERATING SYSTEM**

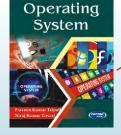
(For CS, IT and Related Branches)

Code: BCE403

Size:  $20 \times 30/8$ Pages: 350 Approx. ISBN: 978-93-5014-

Price: ₹

First Edition: 2024



Praveen Kumar Tripathi Niraj Kumar Tiwari

# CONTENTS Releasing Shortly

## **SENSORS** AND INSTRUMENTATION

(For Science Based Open Elective)

Code: BOE305/405

Size:  $20 \times 30/8$ Pages: 300 Approx. ISBN: 978-93-5014-779-5

Price: ₹ 395/-First Edition: 2024



Βv **Mayur Srivastava** Jaspreet Srivastava Monica Mehrotra

#### CONTENTS

- · Sensors & Transducers
- Measurement of Temperature
- Virtual Instrumentation
- · Data Acquisition Methods
- Intelligent Sensors
- Previous Examination Papers

## EFFECTIVE TECHNICAL COMMUNICATION

(Common to all branches)

Code: BVE301/401

Size:  $20 \times 30/8$ Pages: 375 Approx.

ISBN: 978-93-5014-656-9

Price: ₹ 425/-Reprint: 2023



BvDr. Bharti Kukreja

- Fundamentals of Communication
- · Dynamics of Communication
- Technical Communication
- · Technical Writing
- Self-Development and Assessment
- Business Communication
- · Presentation Skills
- Ethics and Etiquettes
- Grammar
- Index

## THIRD YEAR

## FIFTH AND SIXTH SEMESTER

## DATABASE MANAGEMENT SYSTEM

(For EC, CS and Related Branches)

Code: KCS501/KECZ502

Size:  $20 \times 30/8$ Pages: 400 Approx.

ISBN: 978-81-89757-78-6

Price: ₹ 495/-Reprint: 2024



By P.K. Yadav

#### CONTENTS

- Introduction to DBMS Data Modelling Using the E-R- Model
- Relational Data Model and Language Introduction to SQL
   Normalization Transaction Processing Concepts
- Serializability and Deadlock Handing Concurrency Control Techniques • Competative Quiz • A Practical Approach to SQL
- Tutorial Exercises Previous Year Question Papers Index.

## Concepts of COMPILER DESIGN

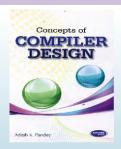
(For CS, IT (DE-I) and Related Branches)

Code: KCS502/KIT052

Size:  $20 \times 26/8$ Pages: 450 Approx.

ISBN: 978-93-5014-126-7

Price: ₹ 450/-Reprint: 2024



By Adesh K. Pandey

#### **CONTENTS**

• Introduction to Compiler • Introduction to Finite Automata and Regular Expression • Lexical Analysis • The Syntactic and Semantic Specification of Languages • Top-Down Parsing • Bottom-up-Parsing • Syntax-Directed Translation • Storage Management • Symbol Table Management • Intermediate Code Generation • Error Detection and Recovery • Code Optimization and Generation • Appendix • Previous Year Examination Papers • Index

## DESIGN AND ANALYSIS OF ALGORITHMS

(For CS and Related Branches)

Code: KCS503

Size: 20 × 30/8 Pages: 650 Approx. ISBN: 978-93-5014-091-8

Price: ₹ 795/-Reprint: 2024



By Vinod K. Rajput

#### CONTENTS

• Introduction • Growth of Functions • Recurrence • Sorting Algorithms • Divide and Conquer • Heapsort • Quicksort • Sorting in Linear Time • Median and Order Statistics • Red Black Tree • Augmenting Data Structures • Dynamic Programming • Greedy Algorithms • Amortized Analysis • B-tree • Binomial Heaps • Fibonacci Heaps • Data Structures for Disjoint Sets • Backtracking • Branch and Bound • Elementary Graph Algorithms • Minimum Spanning Tree • Single Source Shortest Paths • All Pairs Shortest Paths • Maximum Flow • Sorting Networks • Matrix Operations • Polynomials and the FFT • Number Theoretic Algorithms • String Matching • NP-Completeness • Approximation Algorithms • Previous Year Question Papers • Bibliography • Index.

## Introduction to WEB TECHNOLOGY

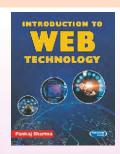
(For CS, IT and Related Branches)

Code: KIT501/KECZ-063/KCS602

Size: 20 × 30/8 Pages: 625 Approx.

ISBN: 978-81-89757-63-2

Price: ₹ 695/-Reprint: 2024



By Pankaj Sharma

#### CONTENTS

• Introduction and Web Development Strategies • HTML (Hypertext Markup Language) • Cascaded Style Sheet (CSS) • XML (Extensible Markup Language) • Javascript and AJAX • RMI and VBScript • CGI and PERL • ASP and ASP.NET (Active Server Page) • JSP (Java Server Pages) • JSP Directives, Standard Actions and COM/DCOM • PHP (Hypertext Preprocessor) • JAVA Beans • Servlet • JDBC (Java Database Connectivity) • Appendix • Model Question Papers • Previous Year Question Papers (Solved) • Index.

## **THIRD YEAR**

## DATA ANALYTICS

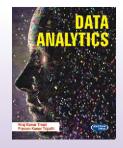
(For CS (DE-1), IT and related Branches)

Code: KCS051/KIT601

Size: 20 × 30/8 Pages: 350 Approx.

ISBN: 978-93-5014-740-5

Price: ₹ 395/-Reprint: 2024



*By* Niraj Kumar Tiwari Praveen Kumar Tripathi

#### CONTENTS

- Introduction to Data Analytics Data Analysis Mining and Data Streams • Frequent Itemsets and Clustering • Framework and Visualisation
- Previous Year Examination Paper
- Index.

### COMPUTER GRAPHICS

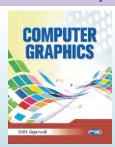
(For CS (DE-1), EC (DE-1) and related Branches)

Code: KCS053/KECZ057

Size:  $20 \times 30/8$ Pages: 500 Approx

ISBN: 978-93-80027-70-8

Price: ₹ 595/-Reprint: 2024



*By* Udit Agarwal

#### CONTENTS

- Introduction to Computer Graphics Graphics Primitives
- Images Mathematics for Computer Graphics Scan Conversion Polygons Segments 2-D Transformation
- Windows and Clipping 3-D Transformation Three Dimensional Projections Interaction Hidden Lines and Surfaces Introduction to Curve Generation Rendering and Illumination Colour Models Graphics Programming Using OpenGL Animation Graphical Kernal System (GKS) Lab Programs Previous Year Question Papers Index.

## MACHINE LEARNING

(For CS (DE-2), EC (DE-3), and related Branches)

Code: KCS055/KECZ064

Size:  $20 \times 30/8$ Pages: 300 Approx.

ISBN: 978-93-5014-734-4

Price: ₹ 395/-Reprint: 2024



By Dr. Himanshu Sharma

#### CONTENTS

- Basic Concepts in Machine Learning
- Supervised Learning
- Unsupervised Learning
- Concept Learning • Decision Tree Learning
- Artificial Neural Networks (ANN)
- Genetic Algorithms (GA)
- · Reinforcement Learning
- · Bayesian Decision Theory and Bayesin Learning
- Statistics for Hypothesis Evaluation
- Computational Learning Theory (CLT)
- Instance-Based Learning (IBL)
- Appendix
- Examination Papers
- Index.

## DATA COMPRESSION

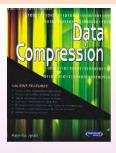
(For CS (DE-3), IT (DE-3) and Related Branches)

Code: KCS064

Size:  $20 \times 26/8$ Pages: 275 Approx.

ISBN: 978-93-5014-175-5

Price: ₹ 265/-Reprint: 2024



By Amrita Jyoti

#### CONTENTS

• Introduction • Mathematical Preliminaries for Lossless Compression • Huffman Coding • Arithmetic Coding • Dictionary Techniques • Context Based Compression • Lossless Image Compression • Mathematical Preliminaries for Lossy Coding • Scalar Quantization • Vector Quantization • Speech and Video Compression • Glossary • Model Question Papers • Previous Year Question Papers • Index.

## **THIRD YEAR**

## **FIFTH AND SIXTH SEMESTER**

## SOFTWARE ENGINEERING

(For CS, IT and related Branches)

Code: KCS601

Size:  $20 \times 30/8$ Pages: 450 Approx.

ISBN: 978-93-5014-236-3

Price: ₹ 495/-Reprint: 2023



By Udit Agarwal

#### CONTENTS

Software and Software Engineering • Software Development
Life Cycle Models • Software Requirement Specification
 Software Reliability and Quality Assurance • Software
Development Methodology • Software Project Management
 Software Design • Software Measurement and Metrics • Coding
 and Testing • Software Maintenance • Software Re-Engineering
 and Reserve Engineering • Computer Aided Software
 Engineering • Important Questions with Answers • Glossary
 • Previous Year Question Papers • Bibliography • Index.

## **COMPUTER NETWORKS**

(For CS, IT and related Branches)

Code: KCS603

Size: 20 × 30/8 Pages: 500 Approx.

ISBN: 978-81-89757-62-5

Price: ₹ 595/-Reprint: 2024



By Dr. Sanjay Sharma

#### CONTENTS

#### Unit-I

• OSI Reference Model and Network Architecture • Introduction to Physical Layer.

#### Unit-II

- Data Link Layer and Protocols Medium Access Sublayer.
- Network Layer.

#### Unit-IV

- Application Layer World Wide Web Example of Networks
- Previous Year Question Papers Index.

## BIG DATA ANALYTICS

(For CS (DE-3) and related Branches)

Code: KCS061

Size:  $20 \times 30/8$ Pages: 200 Approx.

ISBN: 978-93-83992-25-6

Price: ₹ 250/-Reprint: 2024

(Agency Book)

# BIG DATA

By Dr. Sudeep Tanwar, Sushil Kumar Singh, Dr. Sudhanshu Tyagi

#### CONTENTS

• Introduction to Big Data • NOSQL Data Management • Big Data Stack • Basics of HADOOP • Marpreduce Application • HADOOP Related Tools • Big Data Analytics • Integrating Data Sources • Index.

## REAL TIME SYSTEM

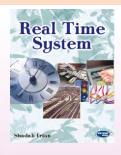
(For Open Elective-I, CS (DE-III)

Code: KOE061/KCS063

Size:  $20 \times 30/8$ Pages: 375 Approx.

ISBN: 978-93-5014-562-3

Price: ₹ 425/-Reprint: 2024



*By* Shadab Irfan

#### CONTENTS

- Overview of Real Time System Introduction to Real Time System Basic Model of Real Time System Real Time Scheduling Concepts Scheduling Aperiodic and Sporadic Jobs in Priority Driven and Clock Driven Systems Resources Access Control Handling Task in Multiprocessor Environment Communication in Real Time System Real Time Operating
- Communication in Real Time System Real Time Operating System Real-Time Database Fault Tolerance Technique
- System Real-Time Database Fault Tolerance Technique
   Designing Issues in Real-Time System Realistic Real Time
  System Software Engineering and Management Issues in RTS •
  Programming Languages and Tools in RTS Expert System and
  Real- Time JAVA Technology Glossary Model Test Papers

• Examination Papers • Index.

## **THIRD YEAR**

## **EMBEDDED SYSTEMS**

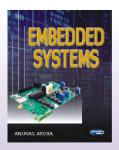
(For Open Elective-1)

Code: KOE062

Size:  $20 \times 30/8$ Pages: 425 Approx.

ISBN: 978-93-5014-554-8

Price: ₹ 450/-Reprint: 2024



By **Anurag Arora** 

#### CONTENTS

- Introduction to Embedded Systems ARM Embedded Systems
- ARM Processor Architecture ARM Programming Instructions
- ARM Programming Instructions: Thumb Instructions C Programming • Writing and Optimising ARM Assembly Code
- · ARM Addressing Modes · Exception and Interrupt Handling • Interfacing Peripherals • Model Question Papers • Index.

## **SOFTWARE PROJECT** MANAGEMENT

(For Open Elective-1)

Code: KOE-068

Size:  $20 \times 30/8$ Pages: 375 Approx.

ISBN: 978-93-80027-36-4

Price: ₹ 395/-



BvEr. Rajiv Chopra

#### CONTENTS

• Introduction and Software Project Planning • Project Organization,Scheduling and Management Issues • Project Monitoring and Control • Technical Communication • Software Quality Assurance (SQA) and Testing • Project Management and Project Management Tools • Appendices • Previous Year Examination Papers • Index.

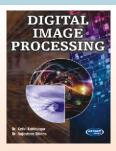
## DIGITAL IMAGE **PROCESSING**

(For CS (DE-3), IT (DE-3) and Related Branches)

Code: KCS062

Size:  $20 \times 30/8$ Pages: 350 Approx ISBN: 978-93-5014-645-3

Price: ₹ 395/-Reprint: 2024



Dr. Ketki Kshirsagar Dr. Rajeshree Shinde

#### CONTENTS

- Continuous, Digital and Discrete Image Processing
   Introduction: Digital Image Processing
   Two-Dimensional Transforms • Image Enhancement and Restoration • Image Restoration • Colour Image Processing • Image Compression • Image Registration • Image Segmentation and Morphology
- · Representation and Description · Object Recognition and Applications • Video Formation, Perception and Representation
- Two-Dimensional Motion Estimation Speech Processing

• Model Question Papers • Index.

## **INTERNET** OF THINGS

A Practitioner's Approach (For CS, ME and Related Branches)

Code: KME553

Size:  $20 \times 30/8$ Pages: 275 Approx. ISBN: 978-93-5014-735-1

Price: ₹ 325/-Reprint: 2024



BvDr. Rajiv Chopra

- Introduction to IoT
- IoT and its Components
- Iot Application Development and Design Challanges
- IIoT Industrial to IoT Fog Computing
- Appendix
- Index.

## **THIRD YEAR**

## FIFTH AND SIXTH SEMESTER

## DIGITAL SIGNAL PROCESSING

(For EC and Related Branches)

Code: KECZ502/KEC503

Size: 20 × 30/8 Pages: 475 Approx. ISBN: 978-93-80027-16-6

Price: ₹ 525/-Reprint: 2024



By Dr. Sanjay Sharma

#### CONTENTS

#### **Unit-I:**

 $\bullet$  Introduction to Digital Signal Processing (DSP)  $\bullet$  Realisation of Digital Systems.

#### Unit-II

· Design of Infinite Impulse Response Digital Filters.

#### Unit-III

• Finite Impulse Response Filter Design.

#### Unit-IV

• Discrete Fourier Transforms (DFT).

#### Unit-V

• Fast Fourier Transform Algorithms • Appendices • Previous Year Question Paper • Index.

# COMPUTER ORGANIZATION & ARCHITECTURE

(For CS (DE-1) and Related Branches)

Code: KECZ051/KET051

Size: 20 × 30/8 Pages: 350 Approx. ISBN: 978-93-5014-557-9

Price: ₹ 395/-Reprint: 2024

# COMPUTER ORGANIZATION & ARCHITECTURE

By Dr. Lalit K. Arora Anjali Arora

#### CONTENTS

- Basics of Computer Organization and Architecture 
   Data Representation in Computer System 
   Computer Arithmetic
- Boolean Algebra and Digital Logic 
   Register Transfer Logic
- Processor Organization Computer Instructions Set Architecture • Memory Organization • Input and Output Organization • Assembly Language • Pipelining • Objective Type Questions • Model Question Papers • References • Index.

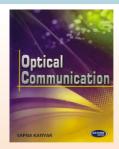
## OPTICAL COMMUNICATION

(For EC (DE-1 & 2) and Related Branches)

Code: KECZ-053/KEC058

Size: 20 × 26/8 Pages: 500 Approx. ISBN: 978-93-80027-81-4

Price: ₹ 495/-Reprint: 2024



By Sapna Katiyar

#### CONTENTS

• Introduction to Optical Communication • Optical Fiber Waveguides • Optical Fiber Materials and Fabrication Techniques • Transmission Characteristics of Optical Fibers • Optical Fiber : Connectors, Joints, Couplers, Isolators and Measurement Techniques • Optical Sources 1 : The Laser • Optical Sources 2 : The Light Emitting Diode • Power Launching and Coupling • Optical Detectors • Optical Receivers • Link Design and Multichannel Systems • Appendices • Glossary • Objective Type Questions with Answers • Model Test Papers • Previous Year Examination Papers • Index.

#### **VLSI DESIGN**

(For EC (DE-1) and Related Branches)

Code: KEC053

Size: 20 × 30/8 Pages: 325 Approx ISBN: 978-93-5014-283-7

Price: ₹ 425/-Reprint: 2024



By Deepak Garg

#### CONTENTS

• Introduction • MOSFET Fabrication • MOS Circuit Design Processes • Design Methodologies • Circuit Characterization • Interconnect • Dynamic Logic Circuits • Semiconductor Memories • Low-Power CMOS Logic Circuits • Design for Testability • Appendices • Examination Papers • Index.

## **THIRD YEAR**

## **ELECTRONIC SWITCHING**

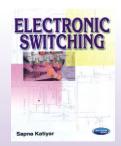
(For EC (DE-2) and related Branches)

Code: KEC055

Size:  $20 \times 26/8$ Pages: 375 Approx.

ISBN: 978-81-89757-68-7

Price: ₹ 375/-Reprint: 2024



BySapna Katiyar

#### CONTENTS

• Evolution of Switching System • Introduction to Switching System • Electronic Switching System • Digital Switching • Space Division Switching • Time Division Switching • Teletraffic Engineering • Control of Switching Systems • Signalling • Packet Switching • Asynchronous Transfer Mode (ATM) Network • Appendices • Glossary • Objective Type Questions • Model Test Papers • Previous Year Examination Paper • Index.

## **ADVANCE** SEMICONDUCTOR **DEVICES**

(For EC (DE-2) and related Branches)

Code: KEC056

Size:  $20 \times 30/8$ Pages: 450 Approx.

ISBN: 978-93-5014-215-8

Price: ₹ 525/-Reprint: 2024



Dr. Sanjay Sharma

#### CONTENTS

• Semiconductor Material and Their Properties • Carrier Transport in Semiconductors • Excess Carriers in Semiconductors.

#### Unit-II

· Junctions and Interfaces.

#### Unit-III

· Majority Carrier Diodes.

#### Unit - IV

• Microwave Diodes • Optoelectronics Devices. Unit - V

• Metal Semiconductor Field-Effect Transistors • MOS Transistors • Charge - Coupled Devices. • Previous Year Question Paper • Index.

## CONTROL **SYSTEMS**

(For EE and related Branches)

Code: KEE502

Size:  $20 \times 30/8$ Pages: 575 Approx.

ISBN 13: 978-81-88458-03-5

ISBN 10: 81-88458-03-1

Price: ₹ 595/-Reprint: 2024



BvS. Hasan Saeed

#### CONTENTS

• References • Index.

• The Control System • Time Response Analysis • Steady State Errors and Error Constant • Frequency Domain Analysis • Stability Theory • Compensation Techniques • State Space Analysis of Control System • Control System Components · Basic Control Actions and Controller Characteristics • Miscellaneous Problems • MATLAB Programs • Model Test Papers • Previous Year Question Papers with Solutions

## ELECTROMECHANICAL **ENERGY CONVERSION-II**

(For EE and Related Branches)

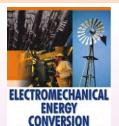
Code: KEE503

Size:  $20 \times 30/8$ Pages: 450 Approx.

ISBN 13: 978-81-89757-09-0

ISBN 10: 81-89757-09-1

Price: ₹ 525/-Reprint: 2024



BvJ.B. Gupta

#### CONTENTS

#### Units I & II: Synchronous Machines

· Synchronous Generators or Alternators · Parallel Operation of Alternators • Synchronous Motors.

Unit-III: Three Phase Induction Machines-I

• Rotating Magnetic Fields • Three Phase Induction Machines-I.

Unit-IV: Three Phase Induction Machines-II

• Three-Phase Induction Machines-II.

Unit-V: Single Phase AC Motors • Single Phase Induction Motors • AC Commutator Motors • Model Test Papers

• Examination Papers • Index.

## **THIRD YEAR**

## FIFTH AND SIXTH SEMESTER

## DATA COMMUNICATION NETWORKS

(For EC (DE-III) Branch)

Code: KEC063

Size:  $20 \times 30/8$ Pages: 500 Approx.

ISBN 13: 978-93-5014-170-0 ISBN 10: 81-89757-42-3

Price: ₹ 595/-Reprint: 2024



By Dr. Sanjay Sharma

#### CONTENTS

#### Unit-I:

• Introduction to Networks and Data Communications • Physical Layer and Data Transmission.

#### Unit-II:

• Switching • The Data Link Layer.

#### Unit-III:

Medium Access Sublayer.

#### Unit-IV:

• Network Layer • Network Connecting Devices.

• Transport Layer Protocol • Network Security and Cryptography

• Model Question Papers • Index.

## POWER SYSTEM ANALYSIS

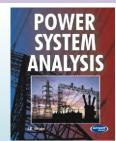
(For EE Branch)

Code: KEE601

Size:  $20 \times 30/8$ 

Pages: 375 Approx. ISBN: 978-93-5014-105-2

Price: ₹ 425/-Reprint: 2024



By J.B. Gupta

#### CONTENTS

#### Unit-I: Representation of Power System Concepts

- Introductory Representation of Power System Components
- Symmetrical Components Symmetrical Fault Analysis

Unit-II: Unsymmetrical Faults Analysis • Unsymmetrical Faults Analysis.

Unit-III: Load Flows . Load Flows.

Unit-IV: Power System Stability • Power System Stability
Unit-V: Travelling Waves • Travelling Waves • Protection
Against Travelling Waves • Examination Papers • Index.

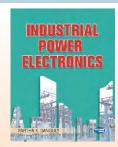
# INDUSTRIAL POWER ELECTRONICS

(For EE Branch)

Code: KEE603

Size: 20 × 30/8 Pages: 600 Approx. ISBN: 978-93-5014-636-1

Price: ₹ 695/-Reprint: 2024



By Partha K. Ganguly

#### CONTENTS

- Basic Semiconductor Physics and Power Diode Bipolar Junction Transistors Power Bipolar Junction Transistors
- Thyristors and Related Power Devices Devices and Commutation Circuit Rectifiers or Converters Inverters
- Chopper (DC-DC Converters) AC Voltage Controller
- Cycloconverters Regulated Power Supply Relays and Timers
- Resonant Converters and Facts
   Differential Amplifiers
   Operational Amplifiers
   Electric Motor Drives
   Industrial
- Heating Electric Welding Microprocessors Special Devices Magnetic Amplifiers Control Systems Protection of Devices
- Electronics Measuring Instruments Programmable Logic
- Controller (PLC) Supervisory Control and Data Acuisition

(SCADA) • Bibliography • Index.

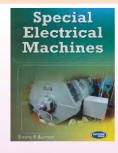
## SPECIAL ELECTRICAL MACHINES

(For EE (DE-3) Branch)

Code: KEE061

Size: 20 × 26/8 Pages: 250 Approx. ISBN: 978-93-5014-262-2

Price: ₹ 265/-Reprint: 2024



By Simmi P. Burman

#### CONTENTS

Poly-phase AC Machines
 Single Phase Induction Motors
 Stepper Motors and Switched Reluctance Motors
 Permanent Magnet Generators
 Single Phase Commutator Motors
 Model Papers
 Examination Paper
 Index.

## **THIRD YEAR**

## DIGITAL **COMMUNICATIONS**

(For EC and related Branches)

Code: KEC601

Size:  $20 \times 30/8$ Pages: 550 Approx.

ISBN: 978-93-80027-24-1

Price: ₹ 625/-Reprint: 2024



Bv Dr. Sanjay Sharma

#### CONTENTS

#### Unit-I:

• Introduction • Digital Data Transmission • Digital Modulation Techniques

#### Unit-II:

· Probability and Random Variables.

#### Unit-III:

· Performance analysis of Digital Communication System.

#### **Unit-IV:**

· Spread Spectrum Communications.

#### Unit-V:

• Information Theory • Error Control Coding • Previous Years

Question Papers • Index.

## **CONTROL SYSTEMS-I**

(For EC and related Branches)

Code: KEC602

Size:  $20 \times 30/8$ Pages: 525 Approx.

ISBN: 978-93-5014-133-5

Price: ₹ 550/-Reprint: 2024



BvS. Hasan Saeed

#### CONTENTS

• Input-Output Relationship • Time Domain Analysis • Error Analysis • Frequency Domain Analysis • Stability Theory • State Space Analysis of Control System • The Laplace Transforms • Miscellaneous Problems • MATLAB Programs • Objective Type Questions • Model Question Papers • References • Index.

## **ANTENNA AND** WAVE PROPAGATION

(For EC and related Branches)

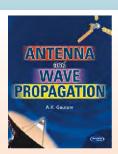
Code: KEC603

Size:  $20 \times 30/8$ Pages: 525 Approx

ISBN 13: 978-81-88458-04-2

ISBN 10: 81-88458-04-X

Price: ₹ 495/-Reprint: 2024



A.K. Gautam

#### CONTENTS

· Electromagnetic Field Radiation · Antenna Terminology · Antenna Arrays · Practical Antennas · Propagation · Antenna Measurements • Multiple Choice Questions • Appendices

• Previous Years Question Papers • Index.

## **SATELLITE** COMMUNICATION

(For EC (DE-III) and related Branches)

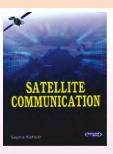
Code: KEC062

Size:  $20 \times 26/8$ Pages: 375 Approx.

ISBN 13: 978-93-5014-169-4 ISBN 10: 81-89757-80-6

Price: ₹ 395/-Reprint: 2024

BvSapna Katiyar



- Introduction Orbital Mechanism and Launching of Satellite
- · Satellite Subsystems · Satellite Channel and Link Design · Propagation Effects and their Impact on Satellite Earth Links
- Earth Station Technology Introduction to Various Satellite Systems Satellite Applications Global Mobile Satellite Systems • Appendices • Short Answer Questions • Glossary
- Model Question Papers Previous Year Examination Papers
- Index.

## **THIRD YEAR**

## FIFTH AND SIXTH SEMESTER

## ANALOG & DIGITAL COMMUNICATION

(For EE (DE-2) and Related Branches)

Code: KEE058

Size:  $20 \times 30/8$ Pages: 575 Approx.

ISBN 13: 978-81-89757-52-6

ISBN 10: 81-89757-52-0

Price: ₹ 695/-Reprint: 2024



By Dr. Sanjay Sharma

#### CONTENTS

#### Unit-I:

• Introduction • Amplitude Modulation • Radio Transmitters

Radio Receivers.

#### Unit-II:

• Angle Modulation • Noise.

#### Unit-III:

• Sampling Theory and Pulse Modulation • Waveform Coding Techniques.

#### Unit-IV:

• Digital Modulation Techniques.

#### Unit-V:

• Digital Multiplexers • Information Theory • Model Question Papers • Previous Year Question Papers • Index.

## INTEGRATED CIRCUITS

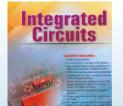
(For EC and Related Branches)

Code: KEC501

Size:  $20 \times 30/8$ Pages: 500 Approx.

ISBN: 978-93-5014-058-1

Price: ₹ 595/-Reprint: 2024



By Dr. Sanjay Sharma

## CONTENTS

#### Unit I

• Analog Integrated Circuit Design: An Overview • The 741 IC Op-Amp.

#### Unit II

• Linear Applications of IC Op-Amps • Filters • Sinusoidal Oscillators.

#### Unit III

• Digital Integrated Circuits Design.

#### Unit IV

• Non-Linear Applications of IC Op-Amps • Analog Multipliers. Unit V

• D/A and A/D Converters • Integrated Circuit Timer • Phase Locked Loops (PLL) • Previous Year Question Paper • Index.

# Theory & Practice of ELECTRICAL MACHINES DESIGN

(For EE (DE-III) Branch)

Code: KEE062

Size:  $20 \times 30/8$ Pages: 975 Approx.

ISBN: 978-93-5014-574-6

Price: ₹ 795/-Reprint: 2024

# Theory & Practice of Electrical Machines Design

By Dr. N.K. Datta

#### CONTENTS

• Basic Ideas of Machine Design and Materials for Electrical Machines • Transformer Design and Construction • Theory and Practice of Design of Rotating Machines • Design of Single Phase Induction Motors (Split Phase) • Computer Aided Design of Rotating Machine • Design of Synchronous Machines • Magnetic Circuit • Heating and Cooling of Electrical Machines • Cooling of Rotating Electrical Machines • Temperature Rises: Time, Curves and Selection of Motor • Armature Windings of Electrical Machines • D.C. Machines • Design of Small Transformer (1-ph) Low Voltage • Design of Starters and Field Regulator • Design of Electromagnets • Design of Current Transformer and Potential Transformer • Special Purpose Machines • Mechanical Parts for Electrical Machines • System Design • Standard Specifications • Index.

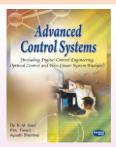
## ADVANCED CONTROL SYSTEMS

(For EE (DE-III) Branch)

Code: KEE063

Size: 20 × 30/8 Pages: 400 Approx. ISBN: 978-81-907386-0-6

Price: ₹ 425/-Reprint: 2024



By Dr. K.M. Soni P.M. Tiwari Ayushi Sharma

#### CONTENTS

#### Part-A: Digital Control Engineering

• Sampling and Signal Conversion • The z-Transform • Transfer Function, Block Diagrams and Signal Flow Graphs • Transform Design of Digital Controls • State Space Analysis of Sampled Data Systems • Design of Digital Controls Using State Space Analysis • Mechanization of Control Algorithms.

#### Part-B: Optimal Control

• Optimal Control • Optimal Feedback Control • Stochastic Optimal Linear Estimation and Control • Microprocessor Control and Single Board Controller • Digital Signal Processor (DSP) Control.

#### Part-C: Non-Linear System Analysis

• Second Order System and Phase Plane • Describing Function Analysis • Appendices • Previous Year Question Papers • Index.

## **THIRD YEAR**

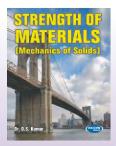
## STRENGTH OF MATERIALS

(Mechanics of Solids)
(For ME and Related Branches)

Code: KME502

Size: 20 × 30/8 Pages: 750 Approx. ISBN: 978-93-5014-665-1

Price: ₹ 695/-Reprint: 2022



By Dr. D.S. Kumar

#### CONTENTS

• Direct Stresses and Strains • Elastic Constants and Thermal Stresses • Compound Stresses and Strains • Plane Trusses and Frames • Shear Force and Bending Moment • Bending Stresses in Beams • Shear Stresses in Beams • Thin and Thick Cylinders and Spheres • Torsion of Circular Shafts • Laminated and Helical Springs • Slope and Deflection of Beams • Fixed and Continuous Beams • Bending of Curved Beams • Centrifugal Stress: Rotating Discs and Cylinders • Struts and Columns • Strain Energy, Impact Load and Theories of Failure • Index.

## Basics of

## HEAT AND MASS TRANSFER

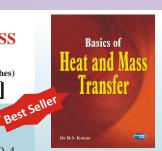
(For ME and Related Branches)

Code: KME-501

Size:  $20 \times 30/8$ 

Pages: 450 Approx. ISBN: 978-93-5014-060-4

Price: ₹ 495/-Reprint: 2023



*By* Dr. D.S. Kumar

#### CONTENTS

• Definitions and Basic Concepts • Fourier Equation and Thermal Conductivity • Steady State Conduction • Conduction with Heat Generation • Heat Transfer from Extended Surfaces • Transient (Unsteady State) Heat Conduction • Radiation: Processes and Properties • Radiation Exchange between Surfaces • Convection: Processes and Properties • Empirical Correlations for free and Forced Convection • Hydrodynamic and Thermal Boundary Layers • Condensation and Boiling • Heat Exchangers • Mass Transfer • Bibliography • Index.

#### REFRIGERATION

&

## AIR-CONDITIONING

(For ME Branch)

Code: KME601

Size: 20 × 30/8 Pages: 650 Approx.

ISBN: 978-93-5014-634-7 Price: ₹ 695/-

Price: ₹ 695/-Reprint: 2024



By Dr. D.S. Kumar

#### CONTENTS

Basic Concepts and Definitions • Refrigerators and Heat Pumps
 Air Refrigeration Cycles
 Aircraft Refrigeration Systems

Vapour Compression Refrigeration • Compound Vapour Compression Refrigeration Systems • Refrigerants, Driers and

Compression Rerngeration Systems • Rerngerants, Driers and Lubricants • Vapour Absorption Refrigeration • Low Temperature Refrigeration (Cryogenics) • Non-Conventional Refrigeration Systems • Refrigeration Equipment • Psychrometry: Moist Air Properties • Air-Conditioning and Human Comfort • Air-Conditioning Systems and Psychogeneses • Collins Load Estimation

Conditioning Systems and Processes • Cooling Load Estimation
• Ventilation, Filtration and Air Distribution • Appendix

 $\bullet \, Pressure\text{-}Enthalpy \, Diagrams \, \bullet \, Index.$ 

# A Textbook of REFRIGERATION AND AIR-CONDITIONING

(For ME Branch)

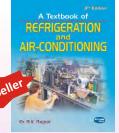
Code: KME601

Size:  $20 \times 30/8$ 

Pages: 925 Approx. ISBN 13: 978-93-5014-255-4

ISBN 10: 81-88458-40-6

Price: ₹ 895/-Reprint: 2022



*By* Er. R.K. Rajput

#### **CONTENTS**

#### Introduction to S.I. Units and Conversion Factors

Part-I: Refrigeration: • Fundamentals of Refrigeration • Air-refrigeration Cycles and Systems • Simple Vapour Compression Refrigeration System • Vapour Compression Refrigeration Systems with Multiple Evaporators and Compressors • Vapour Absorption Refrigeration System • Steam Jet Refrigeration System • Low Temperature Refrigeration (Cryogenics) • Non-Conventional Refrigeration Systems • Refrigeration, Driers and Lubricants • Refrigeration, Components and Controls • Defrosting Methods.

Part-II: Air-conditioning: • Psychrometrics • Human Comfort • Air-Conditioning Systems • Air-Conditioning Equipment, Components and Controls • Duct and Air-Distribution Systems • Fans • Load Estimation • Measuring Instruments-Air-Conditioning
Part-III: Miscellaney: • Thermal Insulation • Applications of Refrigeration

Part-III: Miscellaney: • Thermal Insulation • Applications of Refrigeration and Air- Conditioning • Maintenance and Repair of Commercial and Domestic Equipment • Refrigeration and Air-Conditioning Tools • Universities' Questions (Latest) with Solution • GATE and UPSC Examinations' Questions (Latest Selected) with Answers/Solutions • Appendices • Refrigeration and Air-conditioning Tables and Charts (Including Psychrometric Chart) • Index.

## **THIRD YEAR**

## FIFTH AND SIXTH SEMESTER

# A Textbook of FINITE ELEMENT METHODS

(For ME (DE-1) and related Branches)

Code: KME053

Size: 20 × 26/8 Pages: 300 Approx. ISBN: 978-93-5014-713-9

Price: ₹ 250/-Reprint: 2024



By Pushpam Kumar Sinha

#### CONTENTS

• Introduction • Shape Functions • Variational Approach of FEM
• Beam Introduction • Two Dimensional Boundary Value Problems • Time-Dependent and Eigenvalue Problems • Other Approaches of FEM• Appendix A: Methods of Weighted Residual (MWR) • Appendix B: Brachistochrone Problem and Its Solution • Appendix C: Finite Element Modeling of Plane Stress, Plain Strain and Axis Symmetry Problems • Index.

## Advanced WELDING TECHNOLOGY

(For ME (DE-2) and related Branches)

Code: KME055

Size:  $20 \times 26/8$ Pages: 400 Approx.

ISBN: 978-93-80027-39-5

Price: ₹ 395/-Fifth Edition: 2024

# Advanced Welding TECHNOLOGY



*By* Dr. S.A. Rizvi

#### CONTENTS

Unit-I: • Introduction • Review of Conventional Welding Process.

Unit-II: • Advanced Welding Techniques.

Unit-III: • Advanced Welding Techniques (Continued).

Unit-IV: • Weld Design and Weld Defect • Testing and Inspection of Welding Joint • Macrostructure and Microstructure of Weld • Welding of Pipe Lines and Pressure Vessels.

Unit-V: • Thermal and Metallurgical Consideration • Thermit Welding • Gravity Welding • Metal Transfer • Welding Electrodes

• Stud Arc Welding • Objective Type Questions • Appendix • References • Examination Papers • Index.

## MECHANICAL VIBRATIONS

(Theory & Applications)

(For ME (DE-2) and related Branches)

Code: KME057

Size:  $20 \times 30/8$ Pages: 450 Approx.

ISBN: 978-93-5014-038-3

Price: ₹ 495/-Reprint: 2024



R.K. Singol

By R.K. Singal

#### CONTENTS

Section-I: Basic Concepts and Principles

Basic Concepts • Analysis of Harmonic Motion.
 Section 11: Single Powers of Freedom (SDF) System

 $Section-II: Single \, Degree \, of \, Freedom \, (SDF) \, Systems$ 

• Free Vibrations of SDF Systems • Free Damped Vibrations of SDF Systems • Forced Vibrations of SDF Systems • Transient Vibration of SDF Systems

Section -III: Two Degree of Freedom (TDF) Systems
• Vibrations of TDF Systems • Vibration Absorber Systems.

Section-IV: Multi Degree of Freedom (MDF) Systems

Vibrations of MDF Systems
 Vibrations of Continuous Systems

• Analysis of MDF Systems by Numerical Methods • Critical Speed of Shafts • Design Problems and Experiments.

Speed of Shafts • Design Problems and Exp Section-V: Appendices

Index.

• Inc

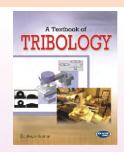
## A Textbook of TRIBOLOGY

(For ME(DE-III) Branch)

Code: KME063

Size: 20 × 30/8 Pages: 400 Approx. ISBN: 978-93-5014-522-7

Price: ₹ 450/-Reprint: 2024



By Er. Arun Kumar

- History and Industrial Significances of Tribology
- Surface Engineering and Wear Friction Wear
- Lubrication Bearings Composite Materials
- $\bullet \ Nanotribology \bullet Filter \ and \ Filtration \bullet Appendices$
- Important Questions Model Question Papers
- Bibliography Index.

## **THIRD YEAR**

## A Textbook of MACHINE DESIGN

(For ME Branch)

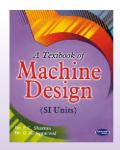
Code: KME602

Size:  $20 \times 30/8$ 

Pages: 1100 Approx.

ISBN 13: 978-93-5014-281-3 ISBN 10: 81-85749-09-4

Price: ₹ 795/-Reprint: 2021



By Dr. P.C. Sharma Dr. D.K. Aggarwal

#### CONTENTS

Section-I: General • Introduction • Engineering Materials • Stress Analysis • Designing for Strength • Manufacturing Considerations in Design • Seals and Gaskets.

Section-II: Fasteners • Riveted Joints • Welded Joints • Threaded Joints • Eccentric Loading of Riveted, Welded and Threaded Joints • Cotter and Knuckle Joints • Keys and Couplings • Pipe Joints

• Levers • Springs. Section-III: Power Transmission • Shafts and Axles • Bearings

• Clutches and Brakes • Belt Drives • Rope Drive • Chain Drives • Gear Drives • Power Screws.

**Section-IV: Pressure Vessels** • Cylinders, Pipes and Tubes • Cylinder Heads and Cover Plates.

Section-V: I.C. Engine Parts • General Design • Design of Principal Parts.

**Section-VI: Miscellaneous Topics** • Miscellaneous Topics • Appendices • Index.

# Basics of NON-DESTRUCTIVE TESTING

(For ME(DE-III) Branch)

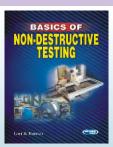
Code: KME061

Size:  $20 \times 26/8$ 

Pages: 275 Approx.

ISBN: 978-93-5014-394-0

Price: ₹ 295/-Reprint: 2024



*By* Lari & Kumar

#### CONTENTS

• Introduction to NDT • Visual Inspection • Penetrant Testing • Magnetic Particle Testing • Radiographic Inspection • Ultrasonic Testing • EDDY Current Testing • Appendices A to E • Model Test Papers • Examination Paper • Index.

## GEOTECHNICAL ENGINEERING

(Soil Mechanics)

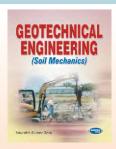
(For CE Branch)

Code: KCE501

Size:  $20 \times 30/8$  Pages: 375 Approx.

ISBN: 978-93-5014-502-9

Price: ₹ 325/-Reprint: 2024



*By* Saurabh K. Soni

#### CONTENTS

- Soil Formation Soil Composition Index Properties of Soil • Classification of Soil • Clay Mineralogy and Soil Structure
- Soil Water System Permeability Seepage Analysis Stress
- Distribution in Soil Mass Compaction Consolidation of Soil • Shear Strength of Soil • Earth Pressure and Retaining Walls
- Soil Exploration Foundation Bearing Capacity of Shallow Foundations Experiments Experiments Model Question Papers Index.

## REINFORCED CEMENT CONCRETE DESIGN

(For CE Branch)

Code: KCE601

Size: 20 × 30/8 Pages: 725 Approx. ISBN: 978-93-5014-515-9

Price: ₹ 595/-Reprint: 2022





By Neelam Sharma

- Introduction Working Stress Method of Design Introduction to Limit State Method of Design Limit State of Collapse: Flexure
- Limit State of Collapse: Shear and Bond Design of Singly Reinforced Beams • Design of Doubly Reinforced Beams • T-Beams • Design for Torsion • Limit State of Serviceability • One Way Slab • Two Way Slab • Columns • Foundations • Staircase
- Retaining Walls Flat Slab Yield Line Theory of Slabs
   Continuous Beams Beams Curved in Plan Slab Culvert
- Continuous Beams
   Beams Curved in Plan
   Slab Culvert
   Design of Water Tank
   Introduction to Prestressed Concrete
- Index.

## **THIRD YEAR**

## FIFTH AND SIXTH SEMESTER

## Fundamentals of STRUCTURAL ANALYSIS

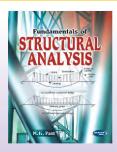
(For CE Branch)

Code: KCE502

Size:  $20 \times 30/8$ Pages: 400 Approx.

ISBN: 978-93-5014-328-5

Price: ₹ 495/-Reprint: 2024



By M.K. Pant

#### CONTENTS

#### Part I

 Introduction
 Statically Determinate and Indeterminate Structures
 Stress and Strains
 Bending Stresses in Beams
 Columns and Struts
 Deflection of Beams
 Principle of Virtual Work Done.

#### Part II

• Strain Energy Concept-Indeterminate Structures • Slope Deflection Method • Moment Distribution Method • Three Hinged Arch • Shear Force and Bending Moment in Beams and Frames

• Unsymmetrical Bending • Cables and Suspension Bridges • Analysis of Statically Determinate Trusses/Frames • Theorem of Three Moments • Gravity Dams • Two Hinged Arch • Useful-Data

• Index.

## CONCRETE TECHNOLOGY

(For CE (DE-1) Branch)

Code: KCE051

Size:  $20 \times 30/8$ Pages: 275 Approx.

ISBN: 978-93-5014-587-6

Price: ₹ 295/-Reprint: 2024



By Sachin Rohilla Vipin Rohilla

#### CONTENTS

• Concrete Technology • Ingredients of Concrete • Properties of Concrete • Water Cement Ratio • Workability • Proportioning of Normal Concrete • Admixtures • Special Concrete • Concreting Operations • Non-Destructive Test • Practical Exercises • Index.

## ENGINEERING AND GENERAL GEOLOGY

(For CE (DE-1) Branch)

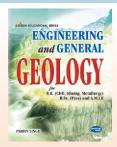
Code: KCE054

Size:  $20 \times 30/8$ Pages: 625 Approx.

ISBN 13: 978-93-5014-267-7

ISBN 10: 81-88458-51-1

Price: ₹ 550/-Reprint: 2024



*By* Parbin Singh

## CONTENTS

• Introduction • The Earth • Geological Work of Natural Agencies

• Geological Work of Water • Geological Work of Glaciers

• Structural Features of Rocks • Structural Features of Rocks (Contd...) • Physiographic Features • The Study of Minerals • The Study of Minerals • The Study of Minerals (Contd...) • Study of Rocks • Study of Rocks • Study of Rocks • Contd...) • Economic Mineral Deposits • Stratigraphy of India • Engineering Properties of Rocks • Groundwater • Earthquakes • Mass Movements • Soils • Geological Investigations • Dams and Reservoirs • Tunnels and Road Cuts • Improvement of Sites • Appendix • Index.

## TRANSPORTATION ENGINEERING

(For CE Branch)

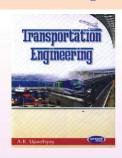
Code: KCE602

Size:  $20 \times 26/8$ Pages: 375 Approx

ISBN 13: 978-81-85749-63-1

ISBN 10: 81-85749-63-9

Price: ₹ 365/-Reprint: 2024



By A.K. Upadhyay

#### CONTENTS

Part-A: Highways • Introduction • Road Geometrics • Highway Surveys and Plans • Road Materials • Road Pavements • Hill Roads • Road Drainage • Road Maintenance • Traffic Engineering • Construction Equipment • Roadside Arboriculture.

Part-B: Railways • Introduction • Alignment and Survey • Permanent Way • Rails • Sleepers • Ballast • Fixtures and Fastenings • Tracks Geometrics • Points and Crossings • Stations and Yards • Signalling.

Part-C: Bridges • Bridges

Part-D: Tunnels • Tunnels • Experiments • Index.

## **THIRD YEAR**

#### **CIVIL ESTIMATING** AND COSTING

(Including Quantity Surveying, Tendering and Valuation) (For Civil and Related Branches)

Code: KCE503

Size:  $20 \times 30/8$ Pages: 500 Approx

ISBN 13: 978-81-85749-98-3 ISBN 10: 81-85749-98-1

Price: ₹ 495/-Reprint: 2024



A.K. Upadhyay

#### CONTENTS

• Estimating and Costing • Building Estimates • Reinforced Cement Concrete Work (R.C.C. Work) • Analysis of Rates • Earthwork in Irrigation Channel and Roads • Retaining Walls and Roads • Public Health Engineering • Valuation • Contracting • Billing • Index.

#### An Introduction to REMOTE SENSING AND ITS APPLICATIONS

(Geoinformatics) (For Open Elective-I)

Code: KOE066

Size:  $20 \times 30/8$ Pages: 450 Approx.

ISBN: 978-93-5014-535-7

Price: ₹ 595/-Reprint: 2024



Shivangi Somvanshi Maya Kumari

#### CONTENTS

CONTENTS

• Photogrammetry • Introduction to Remote Sensing • Image Interpretation • Digital Image Processing • Microwave Remote Sensing • Hyperspectral Remote Sensing • Geographic Information System (GIS) • Geosphatial Analysis & Modeling • Global Positioning System (GPS) • Applications of Remote Sensing • Glossary • Lab Experiments • Model Papers • Index.

#### **ADVANCED** CONSTRUCTION **TECHNIQUES** AND EQUIPMENTS

(For CE (DE-I) Branch)

Code: KCE052

Size:  $20 \times 30/8$ Pages: 300 Approx.

ISBN: 978-93-5014-751-1 Price: ₹ 465/-

Reprint: 2023



BvDr. Manoranjan Samal

#### · Advanced Construction Materials II · Advanced Construction Materials III Prefabrication

- Earthquake Resistant Construction Retrofitting of Structures · Building Services
  - · Construction & Earthmoving Equipment

Advanced Construction Materials I

- · Soil Reinforcing Techniques
- Index

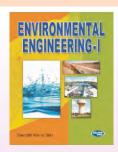
## **ENVIRONMENTAL ENGINEERING-I**

(For CE Branch)

Code: KCE603

Size:  $20 \times 30/8$ Pages: 300 Approx. ISBN: 978-93-5014-334-6

Price: ₹ 395/-Reprint: 2024



BySaurabh K. Soni

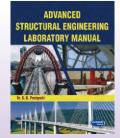
- Water Demand and Domestic Use Transmission of Water • Storage and Distribution of Water • Waste Water Collection
- Multiple Choice Questions Appendices Previous Year
- Question Papers (Unsolved) Index.

## **THIRD YEAR**

## ADVANCED **STRUCTURAL ENGINEERING LABORATORY MANUAL**

Size:  $23 \times 36/8$ Pages: 200 Approx ISBN: 978-93-5014-745-0

Price: ₹ 295/-Reprint: 2024



BvDr. S.K. Panigrahi

## CONTENTS

#### Part 1 Concrete Laboratory

A: Characterization of Cement • Standard consistency and Setting times test of cement • Fineness test of Cement by Sieve analysis • Soundness test of cement • Specific gravity test of cement . Compressive strength test of cement.

**B:** Characterization of Aggregate • Particle size distribution of fine and coarse aggregates • Specific gravity and Water absorption test of fine aggregates • Specific gravity and Water absorption test of coarse aggregates • Unit weight and Void test of fine and coarse aggregates • Aggregate Crushing value test of coarse aggregate • Aggregate Impact value test of coarse aggregate • Aggregate Abrasion value of coarse aggregate • Flakiness index and Elongation index test of coarse aggregate • Bulking test of fine aggregates • Shape and Dimension test for

C: Characterization of Brick • Water absorption test of brick • Compressive strength test of

D: Characterization of Concrete • Slump test and Compaction factor test of wet concrete • Stress-strain curve, modulus of elasticity, and Poisson's ratio test of concrete • Flexural strength/Modulus of Rupture test of concrete • Split tensile strength test of concrete

E: Characterization of Self-Compacting Concrete (SCC) • Slump Flow Test of SSC • T<sub>50</sub> CM Slump Flow Test of SSC • V Funnel Test of SSC • V Funnel at T5 Minutes of SSC • L Box Test of SSC • J Ring Test of SSC.

Part 2 Study of Durability Properties for Concrete

• Water Absorption test of concrete • Sorptivity test of concrete • Rapid Chloride Permeability test of concrete (RCPT) • Acid Resistance test of concrete • Sulphate Resistance test of concrete • Chloride Resistance test of concrete

Part 3 Study of Microstructural Properties

• Scanning Electron Microscope (SEM) test • Energy Dispersive X-Ray Spectroscopy (EDX) test • X-Ray Diffraction (XRD) test • Fourier Transform Infrared Spectroscopy (FTIR) test • Thermogravimetric Analysis

#### Part 4 Structural Engineering Laboratory

A: Characterization of Steel • To determine the unit mass (kg/m) and the effective cross-sectional area of the given HYSD bar  $\bullet$  To check the transverse cracks in the bent position after bend and rebend test of HYSD bars • Determination of ultimate tensile strength by UTM and percentage elongation of given HYSD bar • To determine the ultimate tensile strength,

yield strength, and percentage elongation of a mild steel coupon

B: Non Destructive Testing • To determine the quality of concrete using non-destructive testing of concrete by Ultrasonic Pulse Velocity method • To assess the available compressive strength in concrete using non-destructive testing by the Rebound Hammer method

C: Mix Design of Concrete • To perform the M25 concrete mix design following IS 10262:2019 • To test an RCC beam under two-point load under

D: Some Regular Structural Analysis Problems • (a) To compare the experimental and theoretical values of the horizontal thrust of a three-hinged parabolic arch. • To plot the Influence Line Diagram of the horizontal thrust of the three-hinged arch • (a) To draw the profile of the two hinged arch (b) To compare the horizontal thrust for a given system of loading at the roller end both experimentally and analytically in a two-hinged arch. • To verify Maxwell theorem of reciprocal deflection by needle beam apparatus and to measure flexural rigidity
Part 5 Corrosion Estimation of steel in Concrete

• To determine the mass loss of steel reinforcement embedded in concrete due to corrosion by Impressed Current Technique (ICD) through accelerated corrosion process. • To estimate the electrical half-cell potential of uncoated reinforcing steel in concrete, so that the corrosion activity of the reinforcing

## **FLUID MECHNICS** AND HYDRAULIC MACHINES LABORATORY MANUAL

Size:  $23 \times 36/8$ Pages: 225 Approx.

ISBN: 978-93-5014-756-6

Price: ₹ 425/-Reprint: 2024

## FLUID MECHANICS HYDRAULIC MACHINES LABORATORY MANUAL

BvDr. S.K. Panigrahi L. Mohanty

## CONTENTS

Orifice • Flow Through Cylindrical Mouthpiece • Measurement of Capillary Rise • PVC Pipe Testing (Bursting Pressure) • PVC Pipe Testing (Impact) • PVC Pipe Testing (Softening Point) • Water Hammer Phenomena **OPEN CHANNEL FLOW** 

· Manning's Constant and Chezy's Constants · Flow Over Notches · Characteristics of Flow over Sharp Crested Weir • Specific Energy and Critical Depth • Application of Specific Energy (Flow Characteristics Over the Hump) • Application of Specific Energy (Flow Characteristics with Width Constriction) • Hydraulic Jump • Surges • Boundary Layer Growth in Open Channel • Velocity Distribution in an Open Channel • Flow Beneath a Sluice Gate • Flow Through a Parshall Flume • Flow over a Broad Crested Weir • Flow through a Cut-throat Flume • Characteristics of Flow over

#### HYDRAULIC MACHINES HYDRAULIC RAM

• Study of Characteristic Curves of a Hydraulic Ram at Constant Valve Lift and Constant Supply Head • Determination of Rankine Efficiency of Hydraulic Ram and D'Aubussin's Efficiency

#### WATER JET

• Determination of Force Exerted by a Jet of Water on a Fixed Vane TURBINES

· Determination of Overall Efficiency of Francis Turbine with Constant Speed • Determination of Overall Efficiency of Pelton Turbine under Constant Speed with Alternating Load • Study of Performance

## Characteristics of a Kaplan Turbine at a Constant Speed

• Study of Performance Characteristics of a Centrifugal Pump at a Constant Speed • Study of Performance Characteristics of a Centrifugal Pump at Different Speeds • Study of Performance Characteristics of a Reciprocating Pump at a Constant Speed • Determination of Percentage of Slip and Efficiency of the Double-acting Reciprocating • Pump and Drawing its Characteristic Curve • Study of Performance Characteristics of a Gear Pump at a Constant Speed

References

#### BASIC FLUID PROPERTIES THERMODYNAMIC FLUID ROPERTIES

• Fluid Density Measurement • Using Measuring Cylinder • Using Density Bottle • Using Eureka Can • Specific Gravity Measurement (Using Hydrometer) • Surface Tension Measurement (Using Stalagmometer) • Measurement of Viscosity • Measurement of Viscosity by Viscometer • Measurement of Viscosity by Terminal Velocity • Measurement of Fluid Pressure • Pressure Measurement by Manometer • Pressure Measurement by Bourdon Pressure Gauge • Centre of Pressure on Submerged Plane Surface

#### KINEMATIC FLUID PROPERTIES

Measurement of Fluid Velocity • Velocity Measurement Using Pitot Tube • Velocity Measurement Using Current Meter • Velocity Measurement Using Flow Tracker • Velocity Measurement Using Micro Adv • Measurement of Depth Using Echo Sounder MISCELLANEOUS FLUID PROPERTIES

• Phenomenon of Cavitation with Forced Conduction • Metacentric Height of a Floating Body • Free and Forced Vortex Flow

#### PIPE FLOW

- Verification of Bernoulli's Theorem Darcy's Friction Factor and Major Losses in the Pipe • Determination of Friction Factor and Plotting Moody's Chart for Pipe Flow • To determine
- the Minor Losses due to Sudden Enlargement, Sudden Contraction and Bend Study of Flow Patterns using Reynolds's Apparatus • Determination of Coefficient of Discharge for Venturi Meter • Determination of Coefficient of Discharge for Orifice Meter • Circular

## **THIRD YEAR**

## **ENVIRONMENTAL ENGINEERING**

LABORATORY MANUAL

Size:  $23 \times 36/8$ Pages: 325 Approx ISBN: 978-93-5014-772-6

Price: ₹ 495/-Reprint: 2024



BvDr. S.K. Panigrahi L. Mohanty

#### CONTENTS

#### Part 1 Water Quality Characteristics **Physical Water Quality Parameters**

• Color • Taste • Odour • Electrical Conductivity • pH (Potential Hydrogen) • Turbidity • Solids

#### **Inogranic/Chemical Water Quality**

• Total Hardness • Sodium (NA), Calcium (CA), Potassium (K) Content • Chloride • Residual Chlorine • Available Chlorine in Bleaching Powder • Sulfate (SO4) Ion • Sulfide • Fluoride • Alkalinity • Acidity • Nitrate • Nitrogen • Phosphorous • Aluminium • Anionic (Demonstration) Detergent (As MBAS) • Barium • Boron • Magnesium • Selenium Silver

#### **Toxic Metals**

- Copper Chromium Cadmium Zinc Lead Mercury Iron
- Manganese Cyanide Molybdenum Nickel Polychlorinated

Biphenyl (PCB) Polynuclear Aromatic Hydrocarbons (PAH) • Total Arsenic • Trihalomethanes (THMS)

#### Organic, Nutrient and Demand

- Dissolved Oxygen (DO) Biochemical Oxygen Demand (BOD) • Chemical Oxygen Demand (COD)
- Phenol Oil and Grease (OG) Pesticides

#### **Bacteriological Water Quality Parameters**

• Total and Faecal Coli Form • Most Probable Number (MPN) Test

#### **Radioactive Elements**

- Alpha Emitter Beta Emitter Part 2 Wastewater Treatment
- Sludge Volume Index (SVI) Part 3 Solid Water Characterization

#### Solid Waste

Municipal Solid Waste Characterizations

## Part 4 Air Quality Monitoring

## Air Quality Test • Respirable Particulate Matter (Demonstration) • Gases

and Particulates in Ambient Air • Indoor Air Quality • Spm and Rspm in Ambient Air • Exhaust Gas Analysis for Air Pollutants

#### Part 5 Noise Level Determination **Noise Pollution**

Sound Determination by Sound Level Meter

## CONSTITUTION OF **INDIA**

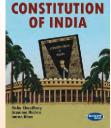
(Common to all Branches)

Code: KNC501/KNC601

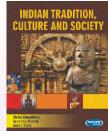
Size:  $20 \times 30/8$ Pages: 225 Approx. ISBN: 978-93-5014-763-4

Price: ₹ 250/-

By Richa Chaudhary Arunima Mishra



**Imran Khan** 



BvRicha Chaudhary Arunima Mishra **Imran Khan** 

#### CONTENTS

Module-I: Introduction and Basic Information About Indian Constitution • Introduction to Constitution of India • Fundamental Rights & Fundamental Duties • Centre-State Relations & Emergency Provisions Local Administration

Module-II: Union Executive and State Executive • Powers of Indian Parliament • Judiciary • State Legislature

Module-III: Introduction and Basic Information about Legal System Sources of Law & Structure of Courts in India • Enacted Laws-Acts of Parliament and Common Law, Arbitration and Tribunals & Indian Legal System • Contract Act 1872, Law of Torts and Laws at Work Place

Module-IV: Intellectual Property Laws and Regulation to Information • Introduction to Intellectual Property Rights & Regulation to Information

- Module-V: Business Organizations and E-Governance
- Business Organizations and E-Governance
- Model Question Papers
- · Previous Year Question Papers
- Bibliography
- Index.

## CONTENTS

#### Module-1: Society, State and Polity in India

- State in Ancient India Political Ideals in Ancient India Society in Ancient India • Representation of Women in Historical Traditions
- Module-2: Indian Literature, Culture, Tradition and Practices
- Evolution of Languages and Script in India Ancient Religious Texts · Literature in Pali, Prakrit and Sanskrit

#### Module-3: Indian Religion, Philosophy, and Practices

 Pre-Vedic and Vedic Religion
 Ancient Indian Philosophy · Religious Movements in India

#### Module-4 Science, Management and Indian Knowledge System

- · History of Scientific Studies in India · Technology in Indian History
- Trade in Ancient India

#### Module-5 Cultural Heritage and Performing Arts

- Indian Architecture Puppetry, Dance, and Music of Ancient India
- · Question Bank · Modal Papers · Previous Year Question Papers
- · Bibliography · Index .

Reprint: 2024 INDIAN TRADITION, **CULTURE AND** SOCIETY

(Common to all Branches) Code: KNC502/KNC602

Size:  $20 \times 30/8$ Pages: 225 Approx. ISBN: 978-81-963589-1-4

Price: ₹ 265/-Reprint: 2024

## **THIRD YEAR**

#### FIFTH AND SIXTH SEMESTER

#### HUMAN COMPUTER INTERFACE

(For CE Branch)

Code: KCE502

Size: 20 × 30/8 Pages: 300 Approx. ISBN: 978-93-5014-

Price: ₹

First Edition: 2024



By Pancham Singh

#### CONTENTS

Releasing Shortly

#### WEB TECHNOLOGY

(For CS, IT and Related Branches)

Code: KIT501/KECZ-063/KCS602

Size: 20 × 30/8 Pages: 350 Approx. ISBN: 978-93-5014-

Price: ₹

First Edition: 2024



By Ashish Bhatnagar

#### CONTENTS

Releasing Shortly

#### CONTENTS

## RURAL DEVELOPMENT:

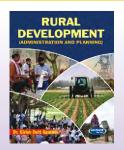
(Administration and Planning)
(Common to Branches)

Code: KHU701/KHU801

Size:  $20 \times 30/8$ Pages: 300 Approx.

ISBN: 978-93-5014-780-1

Price: ₹ 395/-First Edition: 2024



Dr. Girish Dutt Gautam

#### CONTENTS

- Rural Development
- Rural Development Programmes
- · Panchayati Raj and Rural Administration
- Human Resource Development in Rural Sector
- Rural Industrilization and Entrepreneurship
- Index

#### PROJECT MANAGEMENT & ENTREPRENEURSHIP

(Common to Branches)

Code: KHU702/KHU802

Size:  $20 \times 30/8$ Pages: 300 Approx.

ISBN: 978-93-5014-781-8

Price: ₹ 495/-First Edition: 2024



By Dr. Shubhendu Shekher Shukla Dr. Saurabh Bajpai

#### CONTENTS

- Entrepreneurship
- Entrepreneurial Idea and Innovation
- Project Management
- Project Financing
- Social Entrepreneurship
- Case Studies
- Short Answer Questions
- Previous Years Question Paper
- Index

#### MACHINE LEARNING

(Open Elective-II)

Code: KOE073

Size:  $20 \times 30/8$ Pages: 300 Approx.

ISBN: 978-93-5014-734-4

Price: ₹ 395/-Reprint: 2024



By Dr. Himanshu Sharma

#### CONTENTS

- · Basic Concepts in Machine Learning
- Supervised Learning
- Unsupervised Learning
- Concept Learning
- Decision Tree Learning
- Artificial Neural Networks (ANN)
- Genetic Algorithms (GA)Reinforcement Learning
- Bayesian Decision Theory and Bayesin Learning
- Statistics for Hypothesis Evaluation
- Computational Learning Theory (CLT)
- Instance-Based Learning (IBL)
- Appendix
- Examination Papers
- Index.

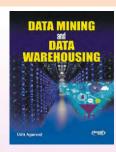
#### DATA MINING AND DATA WAREHOUSING

(Open Elective-IV)

Code: KOE093

Size: 20 × 30/8 Pages: 400 Approx. ISBN: 978-93-5014-490-9

Price: ₹ 425/-Reprint: 2024



By Udit Agarwal

#### CONTENTS

• Introduction to Data Warehousing • Data Warehouse Process and Technology • Client Server Computing • Designing a Data Warehouse • Introduction to Data Mining • Data Preprocessing

- · Data Reduction · Concept Description in Data Mining
- Classification and Predictions
   Clustering Analysis
- Association Rules Data Visualization and Overall Perspective
- Data Mining Interface and Security Artificial Neural Networks
- Genetic Algorithm Support to Data Mining Multimedia and
- Web Data Mining Glossary Solved Questions with Answers
- Multiple Choice Questions Examination Papers Index.

#### **FOURTH YEAR** SEVENTH AND EIGHTH SEMESTER

#### **ARTIFICIAL** INTELLIGENCE

(For CS (DE-IV) and related Branches)

Code: KCS071

Size:  $20 \times 30/8$ Pages: 400 Approx.

ISBN: 978-93-80027-05-0

Price: ₹ 495/-Reprint: 2024



#### Bv Pankaj Sharma

#### CONTENTS

• Introduction to Artificial Intelligence • Introduction to Search Algorithms • Knowledge Representation and Reasoning • Machine Learning • Pattern Recognition • Classification Techniques • Introduction to Prolog and LISP • Glossary • Appendices • Model Question Papers • Previous Year Question Papers • Index.

#### CRYPTOGRAPHY AND **NETWORK SECURITY**

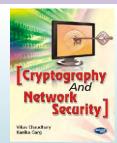
(For CS (DE-IV) and related Branches)

Code: KCS074

Size:  $20 \times 30/8$ Pages: 350 Approx.

ISBN: 978-93-5014-139-7

Price: ₹ 395/-Reprint: 2024



By Vikas Chaudhary Kanika Garg

#### CONTENTS

- Introduction to Security Classical Encryption Techniques Modern Block Ciphers Symmetric Key Cryptography
- Mathematics of Cryptography Asymmetric Key Cryptography
- Message Authentication and Hash Functions Digital Signature • Key Management and Distribution • Authentication Applications and E-mail Security • IP Security • Web Security • System Security • Appendix • Examination Papers • Index.

#### **SOFTWARE TESTING**

(A Practical Approach) (For CS (DE-IV) and related Branches)

Code: KCS076

Size:  $20 \times 30/8$ Pages: 575 Approx.

ISBN: 978-81-89757-90-8

Price: ₹ 325/-



Er. Rajiv Chopra

#### CONTENTS

- Introduction to Software Testing Software Verification and Validation • Black Box (or Functional) Testing Techniques
- White Box (or Structural) Testing Techniques Gray Box Testing
- Reducing the Number of Test Cases Levels of Testing Object Oriented Testing Automated Testing Test Point Analysis (TPA)
- Testing Your Websites: Functional and Non- Functional Testing
- Regression Testing of a Relational Database A Case Study on
- Testing of E-Learning Management Systems Appendices
- Examination Question Papers Index.

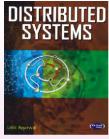
#### DISTRIBUTED **SYSTEMS**

(For CS (DE-IV) and related Branches)

Code: KCS077

Size:  $20 \times 30/8$ Pages: 300 Approx. ISBN: 978-93-5014-349-0

Price: ₹ 350/-Reprint: 2024



By**Udit Agarwal** 

- Characterization of Distributed Systems System Models • Theoretical Foundation for Distributed System • Distributed Mutual Exclusion • Distributed Scheduling • Deadlock Detection
- in Distributed Systems Agreement Protocols Interprocess Communication • Distributed Objects and Remote Invocation
- Security in Distributed Systems Distributed File Systems • Distributed Shared Memory • Failure Recovery in Distributed System • Fault Tolerance in Distributed Systems • Transactions
- and Concurrency Control Distributed Transactions
   Replication Important Questions with Answers
- Bibliography Previous Year Question Papers Index.

## MOBILE COMPUTING

(For CS (DE-V) and related Branches)

Code: KCS711

Size:  $20 \times 26/8$ Pages: 400 Approx.

ISBN: 978-81-89757-58-8

Price: ₹ 395/-Reprint: 2024



By Vishnu Sharma S.P.S. Chauhan

#### CONTENTS

#### Unit-I:

• Introduction • Spread Spectrum • Overview of Wireless LAN.

#### Unit-II:

• Data Replication for Mobile Computer • The CODA Distributed File System • Wireless Application Protocol.

#### Unit-III:

• Data Managements in Mobile Computing.

#### **Unit-IV:**

• Data and Transaction Management in a Mobile Environment

Mobile Agent Computing.

#### Unit-V:

• Routing Protocols for Adhoc Wireless Networks • Model Question Paper based on Previous Examination Paper

• Examination Papers (Solved) • Examination Papers (Unsolved)

• Index

#### INTERNET OF THINGS

A Practitioner's Approach
(For CS (DE-V) and related Branches)

Code: KCS712

Size:  $20 \times 30/8$ Pages: 275 Approx.

ISBN: 978-93-5014-735-1

Price: ₹ 325/-Reprint: 2024



By
Dr. Rajiv Chopra

#### CONTENTS

- Introduction to IoT
- IoT and its Components
- Iot Application Development and Design Challanges
- IIoT Industrial to IoT
- Fog Computing
- Appendix
- Index.

#### CLOUD COMPUTING

(Scope, Challanges and Solutions)
(For CS (DE-V) and Open Elective-III)

Code: KCS713/KOE081

Size:  $20 \times 30/8$ Pages: 475 Approx.

ISBN: 978-93-5014-658-3

Price: ₹ 495/-Reprint: 2024



By Ashish Bhatnagar Shailza Sharma

#### CONTENTS

• Introduction • Cloud Types and Services • The Role of Networks in Cloud Computing • Virtualization Technology • Enterprise Knowledge Clouds • Cloud Security Mechanism • Migrating IT to the Cloud • Transformation on Clouds • Cloud Architectural Blueprints • A Solution for Enterprise Cloud Problems • Understanding Microsoft Azure • Azure Web Apps and Services

• AWS-The Practical Aspects • Index.

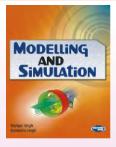
#### MODELLING AND SIMULATION

 $(Open\ Elective\text{-}IV)$ 

Code: KOE096

Size: 20 × 30/8 Pages: 375 Approx ISBN: 978-93-80027-22-7

Price: ₹ 465/-Reprint: 2024



By Pushpa Singh Narendra Singh

#### CONTENTS

• Introduction to System and Models • System Study • System Simulation • Input Data Model • Process and Validation of Modeling and Simulation • Basic of Probability • Continuous and Discrete System Simulation • System Dynamics • Random Number Generation • Simulation of Queuing System • Arrival Patterns and Discrete System Simulation • Simulation Language • GPSS • Estimation and Output Analysis of Simulation • Simulation of PERT Network • Real World Application of

 Simulation of PERT Network
 Real World Application of Simulation
 Appendices
 Model Test Papers
 Examination Papers
 Index.

Papers • Index.

### **FOURTH YEAR** SEVENTH AND EIGHTH SEMESTER

#### MOBILE & WIRELESS COMMUNICATIONS

(For EC (DE-V) Branch) Code: KEC076

Size:  $20 \times 30/8$ Pages: 475 Approx.

ISBN: 978-93-5014-221-9

Price: ₹ 525/-Reprint: 2024



BvDr. Sanjay Sharma

#### CONTENTS

#### Unit-I

• Introduction: Evolution of Mobile Communication Fundamentals • Mobile Radio Propagation.

• Equalization and Diversity Techniques • Speech Coding and Multiple Access Techniques.

#### Unit-III

· Cellular Concepts

#### Unit-IV

• Wireless Networks • Wireless Systems and Standards.

Unit-V • Some Emerging Wireless Network Technologies • An Overview of CDMA2000, WCDMA and EDGE • Wireless Architectures • Appendices • Model Question Paper • Index.

#### **INFORMATION THEORY AND** CODING

(For EC (DE-V) Branch)

Code: KEC075

Size:  $20 \times 30/8$ Pages: 400 Approx.

ISBN: 978-93-5014-531-9 Price: ₹ 450/-Reprint: 2024

## INFORMATION THEORY and CODING

*By* Varun Goyal Gauray Gupta

#### CONTENTS

- Probability and Random Variable Random Processes
- Information Theory and Source Coding Linear Block Codes
- · Convolutional Codes and ARQ · Appendix · References
- Previous Year Question Papers Index.

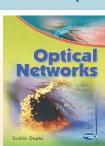
#### **OPTICAL NETWORKS**

(For EC (DE-IV) Branch)

Code: KEC073

Size:  $20 \times 26/8$ Pages: 375 Approx ISBN: 978-93-80027-52-4

Price: ₹ 325/-Reprint: 2024



BySachin Gupta

#### CONTENTS

Unit 0: Optical Networks.

Introduction

Unit I:

• Introduction to Optical Networks

Unit II:

• Optical Components

• Sonet/SDH Networks • ATM • WDM Network Elements

Unit IV

• WDM Network Design Issues & Introduction to Access

Unit V:

· Optical Switching and Deployment Considerations

• Appendices • Glossary • Previous Years Question Papers • Index.

#### **BIO-MEDICAL SIGNAL PROCESSING**

(Open Elective-III)

Code: KOE082

Size:  $20 \times 26/8$ Pages: 250 Approx. ISBN: 978-93-80027-26-5

Price: ₹ 250/-Reprint: 2023





ByRakesh Kumar

- Introduction to Biomedical Signal Processing Sources of Bioelectric Potentials • Basics of ECG, EEG, EMG, and ERG • Transducers and Electrodes and Biomedical Application • Role of Computers in Biomedical Instrumentation • Data Reduction Techniques • QRS Detection • Evoked Potential Estimation
- · Neurological Signal Processing · Monitors and Recorders
- · Appendix · Index.

## POWER QUALITY

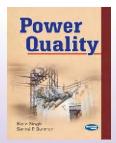
(For EE (DE-IV) Branch)

Code: KEE074

Size:  $20 \times 26/8$ Pages: 325 Approx.

ISBN: 978-93-5014-444-2 Price: ₹ 325/-

Reprint: 2024



*By*Bipin Singh
Simmi P. Burman

#### CONTENTS

 Introduction to Power Quality • Voltage Sag • Electrical Transients • Harmonics • Measurement and Solution of Power Quality Problems • Distributed Generation and Benchmarking of Power Quality • Harmonic Distortion Evaluations • References
 • Examination Papers • Index.

## Elements of ELECTRIC DRIVES

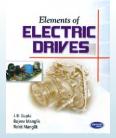
(For EE (DE-V) Branch)

Code: KEE075

Size:  $20 \times 30/8$ Pages: 325 Approx.

ISBN: 978-93-5014-200-4

Price: ₹ 350/-Reprint: 2024



J.B. Gupta Rajeev Manglik Rohit Manglik

#### CONTENTS

- Electric Drives Control Devices for Industrial Motors
- Thyristor Control of Electric Motors Motors for Particular Services Examination Papers Index.

## A Textbook of POWER SYSTEM OPERATION AND CONTROL

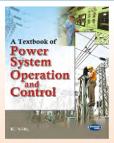
(For EE (DE-V) Branch)

Code: KEE077

Size:  $20 \times 30/8$ Pages: 350 Approx.

ISBN: 978-93-5014-538-8

Price: ₹ 395/-Reprint: 2024



By K. Nisha

#### CONTENTS

- Introduction to Power System Load Curves Load Flow Algorithms • Optimal Load Flow • Power Generation • Stability
- Load Frequency Control Automatic Voltage Controller (AVC)
- Control of Voltage and Reactive Power Flexible AC
- Transmission Systems (FACTS) High Voltage Direct Current
- Supervisory Control and Data Acquisition (SCADA) Appendix
   Bibliography Model Question Papers Examination Paper
- Index.

#### **Utilization of**

#### ELECTRICAL ENERGY AND TRACTION

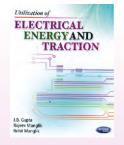
(For EE (DE-V) Branch)

Code: KEE079

Size:  $20 \times 30/8$ Pages: 400 Approx.

ISBN: 978-93-5014-222-6

Price: ₹ 465/-Reprint: 2024



*By*J.B. Gupta
Rajeev Manglik
Rohit Manglik

#### CONTENTS

**Unit-I: Electric Heating** 

• Electric Heating.

Unit-II: Electric Welding and Electrolytic Processes

• Electric Welding • Electrolytic Processes.

Unit-III: Illumination and Refrigeration and Air Conditioning

• Illumination • Refrigeration and Air-Conditioning.

Unit-IV: Electric Traction-I

- Traction Systems Train Movement and Energy Consumption.
  Unit-V: Electric Traction-II
- Electric Traction Motors Control of Traction Motors Braking: Mechanical Considerations and Control Equipment Power Supply for Electric Traction Systems of Electric Traction

Examination Papers • Index.

#### **FOURTH YEAR** SEVENTH AND EIGHTH SEMESTER

#### HIGH VOLTAGE ENGINEERING

(For EE (DE-IV) Branch)

Code: KEE073

Size: 20 × 26/8 Pages: 250 Approx. ISBN: 978-93-5014-393-3

Price: ₹ 275/-Reprint: 2024

#### EHV-AC, HVDC TRANSMISSION AND DISTRIBUTION ENGINEERING

(For EE (DE-IV) Branch)

Code: KEE072

Size:  $20 \times 26/8$ Pages: 500 Approx.

ISBN: 978-93-5014-413-8

Price: ₹ 495/-Reprint: 2024

# ENV-AC, NVDC Transmission and Distribution Engineering

Bv

Nikita Gupta Simmi P. Burman

HIGH VOLTAGE

ENGINEERING

By Sanjay K. Sharma

#### CONTENTS

- Examination Paper Index.

#### CONTENTS

Part A: EHV-AC Transmission Engineering • Introduction to Extrahigh Voltage Transmission Systems • Overhead Line Transmission Voltages • EHV-AC Line Electrical Design Parameters • SAG and Tension of EHV-AC Line Conductor • EHV-AC Line Overhead Conductor • Overhead Line Insulators and Line Accesseries • Vibrations and Dampers • EHV Lines Transmission Structures • Power Cables • Distribution System • Power System Over Voltages and Protection • Corona Discharge • Extra-High Voltage Testing

Part B: HVDC Transmission Engineering • High Voltage Direct Current Transmission • HVDC Converters and Converter Characteristics • Multi-Terminal DC System • Converter Faults and Protection

Part C: Flexible AC Transmission Systems (FACTS) • Introduction to Flexible AC Transmission Systems (FACTS) • Reactive Power Compensation of AC Transmission Lines • Facts Controllers Part D: Power System Operation • Load Frequency Control • Voltage

Control

 $\bullet \ Objective \ Type \ Questions \ with \ Answers \bullet \ Question \ Paper \bullet Index.$ 

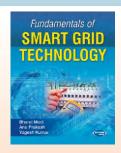
#### Fundamentals of SMART GRID TECHNOLOGY

(Open Elective-III)

Code: KOE084

Size: 20 × 30/8 Pages: 275 Approx. ISBN: 978-93-5014-485-5

Price: ₹ 295/-Reprint: 2024



By Bharat Modi, Anu Prakash & Yogesh Kumar

#### CONTENTS

 Introduction to Smart Grid • Technologies of Transmission and Distribution Systems • Smart Meters and Advanced Metering Infrastructure • Power Quality Management in Smart Grid • High Performance Computing for Smart Grid Applications • Index.

#### OPERATIONS RESEARCH

(Open Elective-II)

Code: KOE075

Size: 20 × 30/8 Pages: 700 Approx. ISBN: 978-93-83992-39-3

Price: ₹ 695/-

Second Edition: 2021 (Agency Book)



By Prof. Rina Rani Rath

- Prerequisite of Operation Research What is Operation Research Linear Programming Graphical Method Simplex Method Artificial Variables Technique Duality to Linear Programming Problem Game Theory Sequencing Problem
- Simulation
   Decision Theory
   Transportation Problem
   Assignment Problem
   Network Scheduling by PERT/CPM
- Resource Analysis in Network Scheduling Queuing Theory
- Non-Linear Programming Problems Quadratic Programming
- Non-Linear Programming Algorithm Index.

#### ELECTRIC AND HYBRID VEHICLE

(Green and Sustainable Transportation)
(For Open Elective-IV)

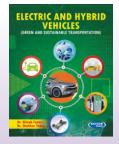
Code: KOE090

Size:  $20 \times 30/8$ Pages: 300 Approx.

ISBN: 978-81-963589-0-7

Price: ₹ 395/-

Second Edition: 2024



By Dr. Nitesh Tiwari Dr. Shekhar Yadav

#### CONTENTS

• Introduction to Electric Vehicles • Electric Motor Drives for EV Application • EV Battries and Battery Management System • Charging System Design Technology for EV Applications • Planning for EV Charging Facility • Energy Storage • AC Motor Drive • Regenerative Braking System • Energy Management Strategy • Hybrid Electric Vehicle • Mechanical Design of a Vehicle • Previous Examination Papers • Index .

## NON-CONVENTIONAL ENERGY RESOURCES

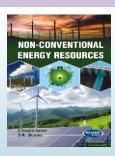
(For Open Elective-II)

Code: KOE074

Size:  $20 \times 26/8$ Pages: 350 Approx.

ISBN: 978-93-5014-228-8

Price: ₹ 350/-Reprint: 2023



S. Hasan Saeed D.K. Sharma

#### CONTENTS

• Introduction to Non-Conventional Energy Resources
• Geothermal Energy • Solar Cells • Solar Thermal Energy • Solar
Photovoltaics • Magneto-Hydro-Dynamics (MHD) Power
Generation • Fuel Cells • Thermoelectrical and Thermionic
Conversions • Wind Energy • Bio-Energy-Biomass and Biogas
• Ocean Thermal Energy Conversion (OTEC) • Ocean Wave
Energy and Tidal Energy • Energy Storage • Energy Management
System • Hydrogen Energy • Appendices • Model Question
Papers • Index.

## NON-CONVENTIONAL ENERGY RESOURCES

(For Open Elective-II)

Code: KOE074

Size: 20 × 30/8 Pages: 350 Approx ISBN: 978-93-5014-312-4

Price: ₹ 425/-Reprint: 2024

# NON-CONVENTIONAL ENERGY RESOURCES Dr. R.K. Singal

By Dr. R.K. Singal

#### **CONTENTS**

Part-1: Current Energy Systems • Energy Utilization • Energy Resources • Energy Conversion Technologies

Part-II: Renewable Energy Systems • Wind Energy • Small Hydro Power Plants • Biomass and Bioenergy • Geothermal Energy • Solar Thermal Energy • Ocean Thermal Energy • Wave and Tidal Wave Energy.

Part-III: Direct Energy Conversion Systems • Fuel Cells • Solar Cells • MHD Power Generation • Thermoelectric Power Generation • Thermionic Power Generation.

Part-IV: Future Energy Sources • Nuclear Fusion Energy • Hydrogen Energy • Exploring New Energy Sources Part-V: Allied Energy Systems • Energy Resource Conservation • Energy Storage.

Part-VI: Projects and Papers

• Appendix • Subject Index.

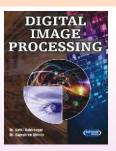
## DIGITAL IMAGE PROCESSING

(For CS (DE-3), IT (DE-3) and Related Branches)

Code: KEC071

Size: 20 × 30/8 Pages: 350 Approx ISBN: 978-93-5014-645-3

Price: ₹ 395/-Reprint: 2024



By Dr. Ketki Kshirsagar Dr. Rajeshree Shinde

- Continuous, Digital and Discrete Image Processing
   Introduction: Digital Image Processing
   Two-Dimensional Transforms
   Image Enhancement and Restoration
   Image Restoration
   Colour Image Processing
   Image Compression
- Image Registration Image Segmentation and Morphology
   Representation and Description Object Recognition and Applications • Video Formation, Perception and Representation
- Two-Dimensional Motion Estimation Speech Processing
- Model Question Papers Index.

#### QUALITY MANAGEMENT

(Open Elective-III)

Code: KOE085

Size: 20 × 26/8 Pages: 375 Approx ISBN: 978-93-5014-163-2

Price: ₹ 375/-Reprint: 2024



*By* O.N. Pandey Bhupesh Aneja

#### CONTENTS

• Quality Concept • Total Quality Management (TQM) • Quality by Design • Control on Purchased Product • Manufacturing Quality • Quality Management • Control Charts • Defects Diagnosis and Prevention • Quality Management System • Taguchi Quality Method and JIT • ISO-14000 Quality Management System • Quality Audit • Reliability • Production Planning and Control • Maintenance Functions • General Maintenance • Predictive Maintenance (PDM) • Spare Parts Management • Pareto Principle • SWOT Analysis • Value Engineering • Appendices • References • Index.

#### AUTOMATION AND ROBOTICS

(Open Elective-IV)

Code: KOE091

Size:  $20 \times 30/8$ Pages: 325 Approx.

ISBN: 978-93-5014-246-2

Price: ₹ 495/-Third Edition: 2024

# AUTOMATION AND ROBOTICS

By Khushdeep Goyal Deepak Bhandari

#### CONTENTS

• Automation • Robotics • Robot Elements • Robot Coordinate System and Manipulator Kinematics • Robot Control • Robot Programming • Electrical and Electronic Controls • Computer Integrated Manufacturing Systems • Industrial Applications • Index.

As Per New Syllabus

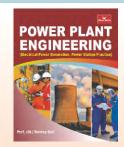
## POWER PLANT ENGINEERING

(Electrical Power Generation, Power Station Practice) (For KME (DE-V) Branch) Code: KME076

Size: 20 × 30/8 Pages: 375 Approx. ISBN: 978-93-83992-44-7

Price: ₹ 425/-Reprint: 2024

(Agency Book)



By Prof. (Dr.) Tanmoy Deb

#### CONTENTS

Basics of Power Generation • Thermal Power Plant • Hydro Electric Power Plant • Nuclear Power Plant • Gas Turbine Power Plant • Diesel Power Plant • Power Station Control • Interconnected Power System • Economic Operation of Power Systems • Co-ordinated Operation of Power Plants • Non-Conventional Energy Sources • Substation • Energy Storage Technologies • Annexures • Bibliography • Model Test Papers • Index.

• Index.

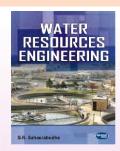
#### WATER RESOURCES ENGINEERING

(For CE (DE-V) Branch)

Code: KCE078

Size: 20 × 30/8 Pages: 425 Approx. ISBN: 978-93-5014-186-1

Price: ₹ 525/-Reprint: 2024



By S.R. Sahasrabudhe

#### CONTENTS

• Elements of Hydrology • Precipitation and its Measurement • Interception, Infiltration and Evaporation • Surface Runoff • Peak Flow and its Estimation • Irrigation Development in India • Water Requirement of Crops • Canal Irrigation • Design of Irrigation Canals (On Alluvial and Non-Alluvial Soils) • Lining of Irrigation Canals (Design of Lined Canals) • Waterlogging and its Remedies (Including Drainage and Conjunctive Use of Surface and Groundwater) • Regulation and Control of Canal System • Irrigation Outlets • River Training • Measurement of River Discharge • Fundamentals of Groundwater • Open Well Irrigation • Tube Well Irrigation • Design of Diversion Headworks and Other Regulatory Structures • Hydropower Stations • Index.

### **FOURTH YEAR** SEVENTH AND EIGHTH SEMESTER

#### SUSTAINABLE ENGINEERING

(For CE (DE-IV) Branch)

Code: KCE071

Size:  $20 \times 30/8$ Pages: 300 Approx.

ISBN: 978-93-5014-714-6

Price: ₹ 365/-Reprint: 2023



By Dr. Srinivas Vasam Dr. K. Jagannadha Rao

#### CONTENTS

- Introduction to Sustainability
- · Sustainable Renewable Energy Sources
- Sustainable Environment
- Guidelines for Sustainable Design
- Sustainable Industrialisation and Urbanization
- Environmental Management
- Environmental ManagementSystem and Standards
- Construction Industry Secondary Product Management
- · Case Studies of Sustainability
- Annexures
- References
- Index.

# Design of STEEL STRUCTURES

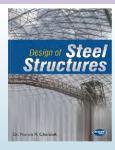
(For CE (DE-V) Branch)

Code: KCE075

Size:  $20 \times 30/8$ Pages: 475 Approx.

ISBN: 978-93-5014-571-5

Price: ₹ 395/-Reprint: 2024



By Dr. N.R. Chandak

#### CONTENTS

- Introduction Simple Connections—Riveted, Bolted and Pinned Connections • Welding and Welded Connections
- Tension Members Design of Compression Members
- Design of Beams Design of Plate Girders Design of Gantry Girder • Design of Roof Trusses • Plastic Analysis
- Cold-Formed Steel Sections Appendix Index.

#### SUSTAINABLE SOLID WASTE MANAGEMENT

Size: 20 × 30/8 Pages: 250 Approx ISBN: 978-81-963589-2-1

Price: ₹ 295/-Reprint: 2024



By Dr. Harshita Jain Dr. Renu Dhupper

#### CONTENTS

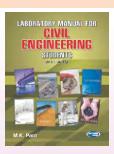
• Introduction to Solid Waste Management • Waste Generation and Characterisation • Waste Collection, Storage and Transportation • Waste Minimisation and Reduction • Waste Treatment and Disposal • Emerging Technology and Approaches • Policy and Regulatory Framework • Case Studies and Examples

• Glossary • Model Question Papers • References • Index .

#### Laboratory Manual for CIVIL ENGINEERING STUDENTS

Size: 20 × 30/8 Pages: 275 Approx. ISBN: 978-93-5014-609-5

Price: ₹ 395/-Reprint: 2024



By M.K. Pant

- Structural Analysis
- Surveying
- Fluid Mechanics
- · Concrete Technology
- Transportation/Highway Engineering
- Soil Mechanics
- Environmental/Public Health Engineering
- · Engineering Geology
- AutoCAD

#### **BLOCKCHAIN ARCHITECTURE DESIGN**

(Department Elective-V)

Code: KCS714

Size:  $20 \times 30/8$ Pages: 400 Approx ISBN: 978-93-5014-

Price: ₹

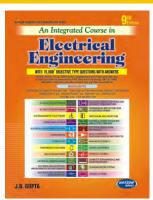
First Edition: 2024



By **Udit Agarwal** 

- Introduction to Blockchain Technology
- · Blockchain Architecture and Design
- Crypto Foundation
- Consensus Protocols
- Understanding Blockchain and Cryptocurrency
- Ethereum Blockchain
- Solidity Programming
- Hyperledger Fabric
- R3 Corda Blockchain
- Overview of Solana Blockchain
- · Enterprise Application of Blockchain
- Use cases in Blockchain
- Index.

#### **COMPETITION BOOKS**



## An Integrated Course in **ELECTRICAL ENGINEERING**

(With 15000 Objective Type Questions with Answers)

9th Edition

Size: 23 × 36/8 Pages: 1225 Approx ISBN: 978-93-5014-368-1

Price: ₹ 1195/-Reprint: 2023

By J.B. Gupta

#### CONTENTS

Section-I: Electric Circuits and Fields

 $\bullet \, DC \, Basics \, and \, Networks \, \bullet \, AC \, Basics \, and \, Networks \, \bullet \, Electromagnetic \, Field \, Theory \, \bullet \, Signals \, and \, Systems. \,$ 

Section-II: Electrical Engineering Materials and Electrical Machines

- Electrical Engineering Materials Transformers DC Machines Synchronous Machines Induction Machines Electrical Machine Design Section-III: Electrical and Electronic Measurements and Instrumentation
- Electrical and Electronic Measurements and Instruments Electrical and Electronic Instrumentation Section-IV: Electrical Power
- Electrical Power Generation and Economic Considerations Transmission and Distribution of Electrical Power Switchgear and Protection Electrical Energy Utilisation and Electric Traction Electrical Installation and Wiring

  Section-V: Analog and Digital Electronics, Power Electronics
- Basic Electronics (Electronic Devices and Circuits) Analog Electronics Digital Electronics Power Electronics.
- Section-VI: Computer Fundamentals and Micro-processors, Communication Systems and Control Systems
- Computer Fundamentals and Microprocessors Communication Systems Control Systems.
- Model Test Papers.



## Explanation/Solution

# An Integrated Course in ELECTRICAL ENGINEERING

(With 15000 Objective Type Questions with Answers)

For 9th Edition book of An Integrated Course in Electrical Engineering

Size: 23 × 36/8 Pages: 975 Approx ISBN: 978-93-5014-666-8

Price: ₹ 995/-Third Edition: 2022

#### By J.B. Gupta

#### CONTENTS

Section-I: Electric Circuits and Fields

 $\bullet DC\ Basics\ and\ Networks\ \bullet AC\ Basics\ and\ Networks\ \bullet Electromagnetic\ Field\ Theory\ \bullet\ Signals\ and\ Systems.$ 

Section-II: Electrical Engineering Materials and Electrical Machines

- Electrical Engineering Materials Transformers DC Machines Synchronous Machines Induction Machines Electrical Machine Design Section-III: Electrical and Electronic Measurements and Instrumentation
- $\bullet \ Electrical \ and \ Electronic \ Measurements \ and \ Instruments \ \bullet \ Electrical \ and \ Electronic \ Instrumentation$

Section-IV: Electrical Power

• Electrical Power Generation and Economic Considerations • Transmission and Distribution of Electrical Power • Switchgear and Protection • Electrical Energy Utilisation and Electric Traction • Electrical Installation and Wiring

Section-V: Analog and Digital Electronics, Power Electronics

 $\bullet \ Basic \ Electronics \ (Electronic \ Devices \ and \ Circuits) \bullet Analog \ Electronics \bullet \ Digital \ Electronics \bullet \ Power \ Electronics.$ 

Section-VI: Computer Fundamentals and Micro-processors, Communication Systems and Control Systems

• Computer Fundamentals and Microprocessors • Communication Systems • Control Systems.