

LEARNING AND INFORMATION RESOURCE CENTRE

LIST OF NEW ARRIVALS – UG/PG BOOKS AND CDS

UG BOOKS

S.N.	SUBJECT
1	<u>DATABASES AND FILES</u>
2	<u>DISCRETE STRUCTURES</u>
3	<u>APPLIED MATHEMATICS</u>
4	<u>ELECTRICAL NETWORKS</u>
5	<u>ELECTRONIC DEVICES AND CIRCUITS</u>
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7	<u>WIRELESS COMMUNICATIONS</u>
8	<u>DIGITAL ELECTRONICS</u>
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10	<u>CONTROL SYSTEMS</u>
11	<u>DATABASE MANAGEMENT SYSTEMS</u>
12	<u>DIGITAL LOGIC DESIGN</u>
13	<u>CIRCUITS AND NETWORKS</u>
14	<u>SQL</u>

005.74 DATABASES AND FILES

1] DATABASE MANAGEMENT SYSTEMS

CHENNAI : MCGRAW-HILL EDUCATION , 2003

005.74 RAM/GEH

25439

Part 1: Foundations

Overview of database systems

Introduction to database design

The relational model

Relational algebra and calculus

SQL: queries, constraints, triggers

Part 2: Application development

Database application development
Internet applications
part 3: Storage and indexing
Overview of storage and indexing
Storing data: disks and files
Tree-structured indexing
Hash-based indexing
part 4: Query evaluation
Overview of query evaluation
External sortin
Evaluating relational operators
A typical relational query optimizer
Part 5: Transaction management
Overview of transaction management
Concurrency control
Crash recovery
Part 6: Database design and tuning
Schema refinement and normal forms
Physical database design and tuning
Security and authorization
Part 6: Additional topics
Parallel and distributed databases
Object-database systems
Deductive databases
Data warehousing and decision support
Data mining
Information retrieval and XML data
Spatial data management
Further reading
The minibase software

2] DATABASE SYSTEM IMPLEMENTATION

NOIDA : PEARSON , 2000

005.74 GAR/ULL

25442

Introduction to DBMS implementation

Data Storage

Representing data elements

Index structures

Multidimensional indexes

Query execution

The query compiler

Coping with system failures

Concurrency control
More about transaction management

Information integration

16] DATABASE SYSTEMS: A PRACTICAL APPROACH TO DESIGN,

IMPLEMENTATION AND MANAGEMENT

NOIDA : PEARSON , 2005
005.74 CON/BEG
25448

- Part 1: Background
- Part 2: The Relational Model and Languages
- Part 3: Database Analysis and Design Techniques
- Part 4: Methodology
- Part 5: Selected Database Issues
- Part 6: Distributed DBMSs and Replication
- Part 7: Object DBMSs
- Part 8: Web and DBMSs
- Part 9: Business Intelligence

510.76 DISCRETE STRUCTURES

21] DISCRETE MATHEMATICAL STRUCTURES

NEW DELHI : WILEY , 2010
510.76 SIN
25465

- Chapter 1 Set Theory · Exercises
- Chapter 2 Relations · Exercises
- Chapter 3 Functions · Exercises
- Chapter 4 Natural Numbers · Exercises
- Chapter 5 Algebraic Structures · Exercises
- Chapter 6 Lattices · Exercises
- Chapter 7 Boolean Algebra · Exercises
- Chapter 8 Propositional Logic · Exercises
- Chapter 9 Trees · Exercises
- Chapter 10 Graphs · Exercises
- Chapter 11 Recurrence Relations · Exercises
- Chapter 12 Generating Functions · Exercises
- Chapter 13 Combinatorics · Exercises

24] DISCRETE MATHEMATICAL STRUCTURES

NOIDA : PEARSON , 2016
R
510.76 KOL/BUS
25348

- 1. Fundamentals
- 2. Logic
- 3. Counting

4. Relations and Digraphs
5. Functions
6. Order Relations and Structures
7. Trees
8. Topics in Graph Theory
9. Semigroups and Groups
10. Groups and Coding
11. Languages and Finite-State Machines

36] DISCRETE MATHEMATICS

SCHAUMS OUTLINES

CHENNAI : MCGRAW-HILL INDIA , 2013

510.76 LIP/LIP

25372

1. Set Theory 2. Relations 3. Functions and Algorithms 4. Logic and Propositional Calculus 5. Vectors and Matrices 6. Counting 7. Probability Theory 8. Graph Theory 9. Directed Graphs 10. Binary Trees 11. Properties of the Integers 12. Algebraic Systems 13. Ordered Sets and Lattices 14. Boolean Algebra 15. Recurrence Relations

39] DISCRETE MATHEMATICS AND ITS APPLICATIONS WITH COMBINATORICS AND GRAPH THEORY

NEW DELHI : TATA MCGRAW-HILL , 2011

510.76 ROS

25369

The Foundations: Logic and Proofs
Basic Structures: Sets, Functions, Sequences and Sums
The Fundamentals: Algorithms, the Integers and Matrices
Induction and Recursion
Counting
Advanced Counting Techniques
Relations
Graphs
Trees
Boolean Algebra
Algebraic structures and coding theory
Modeling Computation

47] ELEMENTS OF DISCRETE MATHEMATICS: A COMPUTER ORIENTED APPROACH

NEW DELHI : MCGRAW-HILL INDIA , 2013

510.76 LIU/MOH

25360

1. Sets and Propositions 2. Permutations, Combinations, and Discrete Probability 3.

Relations and Functions 4. Graphs and Planar Graphs 5. Trees and Cut-Sets 6. Modeling
Computation 7. Analysis of Algorithms 8. Discrete Numeric Functions and Generating
Functions 9. Recurrence Relations and Recursive Algorithms 10. Groups and Rings 11.
Boolean Algebras

519 APPLIED MATHEMATICS

51 J APPLIED MATHEMATICS I

MUMBAI : P. JAMNADAS , 2017

519 KUM

25686

Review

Complex Numbers

Hyperbolic functions

Logarithms of complex numbers

Successive Differentiation

Partial Differentiation

Homogeneous Functions

Jacobians

Maxima and Minima

Expansions of functions

Indeterminate forms

Rank of a matrix

Linear equations

Solutions of Algebraic and Transcendental equations

Scilab

71 J APPLIED MATHEMATICS III: COMPUTER ENGINEERING

MUMBAI : C. JAMNADAS , 2017

519 KUM

25590

Laplace Transforms - I

Laplace Transforms - II

Fourier Series

Complex Form of Fourier Series

Complex Variables

Conformal Mapping

Z-transforms

Correlation

Regression

Curve Fitting and Lines of Regression

101 J APPLIED MATHEMATICS III: ELECTRONICS AND

TELECOMMUNICATION ENGINEERING

MUMBAI : C. JAMNADAS , 2017
519 KUM
25529

Laplace Transforms - I
Laplace Transforms - II
Fourier Series
Complex Form of Fourier Series
Fourier Transforms
Vector Algebra
Vector Differentiation
Vector Integration
Complex variables
Conformal Mapping
Bessel's Functions

126] APPLIED MATHEMATICS III: INFORMATION TECHNOLOGY

MUMBAI : C. JAMNADAS , 2017
519 KUM
25504

Set theory
Relations and Digraphs
Posets
Functions
Recurrence Relations
Laplace Transforms - I
Laplace Transforms - II
Complex Variables
Conformal Mapping
Permutation, Combination and Discrete Probability

621.3192 ELECTRICAL NETWORKS

151] ELECTRIC CIRCUIT ANALYSIS

CHENNAI : PEARSON , 2013
R
621.3192 SUR
25452

1. Circuit Variables and Circuit Elements
2. Basic Circuit Laws
3. Single Element Circuits
4. Nodal Analysis and Mesh Analysis of Memory less Circuits
5. Circuit Theorems
6. Power and Energy in Periodic Waveforms
7. The Sinusoidal Steady-State Response
8. Sinusoidal Steady-State in Three-Phase Circuits

- 9. Dynamic Circuits with Periodic Input - Analysis by Fourier Series
- 10. First Order RL Circuits
- 11. First Order RC Circuits
- 12. Series and Parallel RLC Circuits
- 13. Analysis of Dynamic Circuits by Laplace Transforms
Magnetically Coupled Circuits

156 J NETWORKS AND SYSTEMS

NEW DELHI : NEW AGE , 2010

621.3192 CHO

25457

Basic circuit elements and waveforms

Signals and systems

Mesh and node analysis

Fourier series

The Laplace transform

Application of Laplace transform

Analogous system

Graph theory and network equation

Network theorems

Resonance

Attenuators

Two-port network

Passive filters

Active filter fundamentals

State variable analysis

Network functions

Network synthesis

Feedback system

Frequency response plots

Discrete systems

621.3815 ELECTRONIC DEVICES AND CIRCUITS

161 J ELECTRONIC DEVICES AND CIRCUIT THEORY

NEW DELHI : PEARSON INDIA , 2015

621.3815 BOY/NAS

25373

Semiconductor diodes

Diode applications

Bipolar junction transistors

DC biasing - BJTs

BJT AC analysis

Field-effect transistors

FET biasing

FET amplifiers
BJT and JDET frequency response
Operational amplifiers
Op-Amp applications
Power amplifiers
Linear-Digital ICs
Feedback and oscillator circuits
Power supplies (Voltage regulators)
Other two terminal devices
pnpn and other devices

621.382 COMMUNICATION ENGINEERING

188 J COMMUNICATION SYSTEMS: ANALOG AND DIGITAL
NEW DELHI : McGRAW-HILL INDIA , 2012
621.382 SIN/SAP
25388

1. Signal Analysis
2. Linear Systems
3. Probability and Random Signal Theory
4. Noise
5. Amplitude Modulation Systems
6. Angle Modulation Systems
7. Pulse Modulation Systems
8. Pulse Code Modulation
9. Data Transmission
10. Information Theory
11. Coding
12. Spread-Spectrum Modulation
13. Advanced Communication Systems

198 J INTRODUCTION TO ANALOG AND DIGITAL COMMUNICATIONS
NEW DELHI : WILEY INDIA , 2007
621.382 HAY/MOH
25488

Introduction
Fourier Representation of Signals and Systems
Amplitude Modulation
Angle Modulation
Pulse Modulation: Transition from Analog to Digital Communications
Baseband Data Transmission
Digital Band-Pass Modulation Techniques
Random Signals and Noise
Noise in Analog Communications
Noise in Digital Communications
System and Noise Calculations

Appendix 1: Power Ratios and Decibel
Appendix 2: Fourier Series
Appendix 3: Bessel Functions
Appendix 4: The Q-Function and Its Relationship to the Error Function
Appendix 5: Schwarz's Inequality
Appendix 6: Mathematical Tables
Appendix 7: MATLAB Scripts for Computer Experiments to Problems in Chapters 7-10
Appendix 8: Answers to Drill Problems
Glossary
Bibliography
Index

621.3845 WIRELESS COMMUNICATIONS

223] WIRELESS COMMUNICATIONS AND NETWORKING

NEW DELHI : ELSEVIER , 2008

621.3845 GAR

25347

An overview of wireless systems
Teletraffic engineering
Radio propagation and propagation path-loss models
An overview of digital communication and transmission
Fundamentals of cellular communications
Multiple access techniques
Architecture of a wireless wide-area network (WWAN)
Speech coding and channel coding
Modulation schemes
Antennas, diversity and link analysis
Spread spectrum (SS) and CDMA systems
Mobility management in wireless networks
Security in wireless systems
Mobile network and transport layer
Wide area wireless networks (WANs) - GSM evolution
Wide-area wireless networks - cdmaOne evolution
Planning and design of wide-area wireless networks
Wireless application protocol
Wireless personal area networks: low rate and high rate
Wireless local area networks
Interworking between wireless local networks and 3G wireless wide area networks
Fourth generation systems and new wireless technologies

621.3916 DIGITAL ELECTRONICS

224] MODERN DIGITAL ELECTRONICS

NEW DELHI : MCGRAW-HILL INDIA , 2010

621.3916 JAI

25422

Fundamental concepts
Number systems and codes
Semiconductor devices - switching mode operation
Digital logic families
Combinational logic design
Combinational logic design using MSI circuits
Flip-flops
Sequential logic design
Timing circuits
A/D and D/A converters
Semiconductor memories
Programmable logic devices
Fundamentals of microprocessors
Computer aided design of digital systems

621.392 VHDL

262] VHDL PRIMER, A
NEW DELHI : PEARSON , 2016
621.392 BHA
25600

Introduction
A tutorial
Basic language elements
BEhavioral modeling
Dataflow modeling
Structural modeling
Generics and configurations
Subprograms and overloading
Packages and libraries

282] VHDL: PROGRAMMING BY EXAMPLE
NEW DELHI : McGRAW-HILL INDIA , 2002
621.392 PER
25435

*Introduction to VHDL
*Behavioral Modeling
*Sequential Processing
*Data Types
*Subprograms and Packages
*Predefined Attributes
*Configurations
*Advanced Topics
*Synthesis

- *VHDL Synthesis
- *High Level Design Flow
- *Top-Level System Design
- *CPU: Synthesis Description
- *CPU: RTL Simulation
- *CPU Design: Synthesis Results
- *Place and Route
- *CPU: VITAL Simulation
- *At Speed Debugging Techniques

629.8 CONTROL SYSTEMS

287 J CONTROL SYSTEMS

DELHI : PHI LEARNING , 2017

R

629.8 ANA

25612

Introduction to control systems
Mathematical models of physical systems
Block diagram and signal flow graphs
Time Response Analysis
Routh stability criterion
Root locus technique
Frequency response analysis
Nyquist plot
Compensation
State-space analysis
Digital control systems

DATABASE MANAGEMENT SYSTEMS

292 J DATABASE MANAGEMENT SYSTEMS

NEW DELHI : McGRAW-HILL INDIA , 2011

005.74 GUP

25632

1. Introduction
2. Entity Relationship Model
3. Relational Model
4. Relational Algebra and Relational Calculus
5. SQL
6. Normalization
7. Physical Storage and Indexing
8. Query Processing
9. Transaction Management and Concurrency
10. Database Backup and Recovery

11. Database Security
12. Integrity Constraints and SQL3
- 13 Distributed Databases
14. Object Oriented Database
15. Data Warehouse and OLAP
16. Data Mining
17. Web Databases and XML
18. Emerging Database Technologies

DIGITAL LOGIC DESIGN

298 J DIGITAL LOGIC AND COMPUTER DESIGN

NOIDA : PEARSON , 2016

621.395 MAN

25428

Binary Systems.
Boolean Algebra and Logic Gates.
Simplification of Boolean Functions.
Combinational Logic.
Combinational Logic with MSI and LSI.
Sequential Logic.
Registers, Counters, and the Memory Unit.
Register Transfer Logic.
Processor Logic Design.
Control Logic Design.
Computer Design.
Microcomputer System Design.
Digital Integrated Circuits

303 J DIGITAL PRINCIPLES AND APPLICATIONS

CHENNAI : MCGRAW-HILL EDUCATION , 2015

621.395 LEA/MAL

25555

1. Digital Principles 2. Digital Logic 3. Combinational Logic Circuits 4. Data-Processing Circuits 5. Number Systems and Codes 6. Arithmetic Circuits 7. Clocks and Timing Circuits 8. Flip-Flops 9. Registers 10. Counters 11. Design of Synchronous and Asynchronous Sequential Circuits 12. D/A Conversion and A/D Conversion 13. Memory 14. Digital Integrated Circuits 15. Applications 16. A Simple Computer Design

CIRCUITS AND NETWORKS

313 J NETWORK THEORY: ANALYSIS AND SYNTHESIS

DELHI : PHI LEARNING , 2015

621.3192 GH0

25620

Fundamentals of circuits

Kirchhoff's laws
DC network theorems
DC transients
Single-phase AC circuits
Resonance
Three phase systems
Fourier series and Fourier transform
Laplace transform
Application of laplace transform
Analysis of special signal waveforms
Application of Kirchhoff's laws and network theorems to AC circuits
Coupled circuits
Two-port networks
Properties of network functions
Network graph theory
Analogous systems
State variable approach
Transmission lines
Passive filters
Attenuators
Equalizers
Active filters
Synthesis of passive networks

SQL

318] SQL: THE COMPLETE REFERENCE
NEW DELHI : McGRAW-HILL INDIA , 2010
005.754 GRO/WEI
25662

Part 1

An overview of SQL
A quick tour of SQL
SQL in perspective
Relational databases
Part 2
SQL basics
Simple queries
Multitable queries (joins)
Summary queries
Subqueries and query expressions
Part 3
Database updates
Data integrity
Transaction processing
Part 4: Database structure
Creating a database

Views
SQL security
The system catalog
Part 5: Programming with SQL
Embedded SQL
Dynamic SQL
SQL APIs
Part 6: SQL today and tomorrow
Database processing and stored procedural SQL
SQL and data warehousing
SQL and application servers
SQL networking and distributed databases
SQL and objects
SQL and XML
Speciality databases
The future of SQL

PG BOOKS

MEB1143 SPEECH ANALYSIS: SYNTHESIS AND PERCEPTION-2nd.
By FLANAGAN, JAMES L.
BERLIN/SPRINGER-VERLAG/1972
621.380412 FLA

CDS

CD3080 DIGIT:(DVD):AUG 2017 (DIG)Vol.No.17(8)
By PARWATAY,SIDDHARTH
NAVI MUMBAI/NINE DOT NINE INTERACTIVE/2017
004 PAR

CD3081 OPEN SOURCE FOR YOU (DVD): AUG2017 (OSFY)Vol.No.5(8)
By CHOPRA, RAHUL
NEW DELHI/EFY ENTERPRISES/2017
005.432 CHO