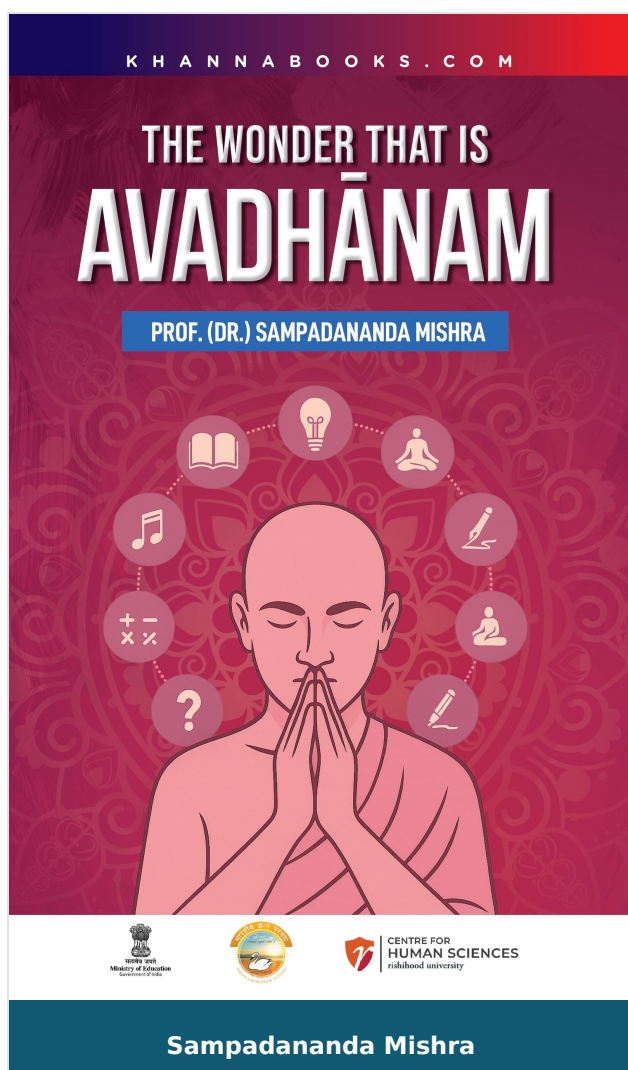




The Wonder That is Avadhanam

Author : Sampadananda Mishra

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[Education & Knowledge Systems](#)

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Country Origin : India

Product Description

The year 2000 holds a special place in my heart because that's when I first discovered something truly magical – Avadhāna. It happened during a seminar in Pondicherry, and little did I know that this art form would become a source of inspiration and wonder in my life. I was part of the team organizing an Avadhāna program, and my job was simple. But what unfolded on that day was anything but ordinary. Avadhāna, which once seemed like a distant and mystical concept, came alive before my eyes, challenging my skepticism and leaving an unforgettable impression. Watching the Avadhāna performance was like witnessing a breathtaking dance of the mind. The performer's skill, speed, and brilliance pushed the boundaries of what I thought was possible. It was more than just a show; it was a journey into a world where intellect and creativity danced together in perfect harmony. Since that day, my life has been a journey of exploration into the art of Avadhāna. I felt a deep connection and a need to share its wonders with the world. I realized there was a missing piece—a book that could introduce Avadhāna to those curious about it, a guide for those wanting to understand its essence. As I delved into the details of Avadhāna, I discovered not just a skill but an endangered art form in need of recognition. It became clear that the survival of Avadhāna depended on creating awareness—helping people see its beauty, challenges, and importance in our cultural heritage. In my quest to understand Avadhāna, I stumbled upon the remarkable life of Vasishtha Ganapati Muni, a true master of Avadhāna. His ability to vi perform Avadhāna was extraordinary, and learning about his life became a fascinating part of my exploration. His anecdotes of composing poetry on the spot and rearranging complex syllabic structures during Avadhāna were awe-inspiring. Vasishtha Ganapati Muni, a shining star in the world of Avadhāna, became a source of inspiration for me. His journey not only showcased the heights achievable in Avadhāna but also left an everlasting mark on this ancient tradition. His story has become a guiding force, pushing me to unravel the layers of this intricate art form and share its beauty with the world. Ganapati Muni's

incredible skills in Avadhāna were truly mindblowing. In one event in Madras, he was challenged to compose a hundred verses on Nala and Damayanti's story in just an hour. Muni's creative flow was so rapid that he crafted twenty-five verses in just six minutes, leaving everyone in awe. His prowess in rearranging syllables in a challenging verse and even reciting it backward showcased his brilliance. At the end of an Avadhāna, he flawlessly critiqued a famous verse, leaving the audience thunderstruck. These moments from his journey highlight the intricate brilliance and indomitable memory power needed in Avadhāna. Following in Vasishtha Ganapati Muni's footsteps, I found not just inspiration but a deep connection to the heart of Avadhāna. His extraordinary abilities reminded me that within the realms of memory, creativity, and intellectual agility, there's a universe waiting to be explored—an invitation to witness the wonders of the human mind through Avadhānam. Continuing my exploration, I discovered two more incredible stories: G N K Ramaswaroop from Enkoor village and Nishchal, a nine-year-old prodigy from Hyderabad. Their stories shed light on Avadhānakalā, the ancient art of multiple concentration. Ramaswaroop, focused on the Bhagavad Gita, amazed audiences by memorizing all 700 shlokas. His performances weren't just recitations; they were a dance of intellect, responding swiftly to questions in various forms. Whether reciting a shloka given a starting word or number, identifying a shloka when recited in reverse, or engaging in the rhythmic Preface vii antyakshari of Gita verses, Ramaswaroop showcased mental agility that set him apart as a true master of Avadhānakalā. Then there's Nishchal, a nine-year-old maths whiz from Hyderabad. While others focused on poetry, Nishchal channeled his concentration and mind power into solving complex maths problems and memorizing 20-digit numbers effortlessly. His feats proved that Avadhānakala goes beyond language and subject matter, captivating audiences with the beauty of mathematics. Colonel H. S. Olcott, an American military officer, journalist, lawyer, and the co-founder and first President of the Theosophical Society, writes in one of his articles published in 'The Theosophist magazine for 1886', about an occasion on which a memory expert of South India simultaneously kept in mind and did the following twelve things and afterward

correctly.

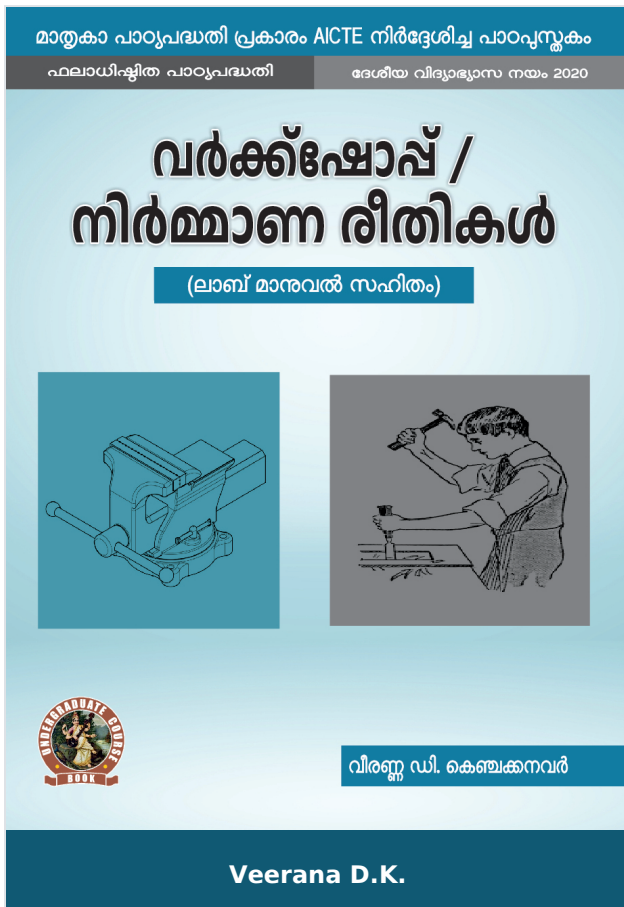
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- The Origin and Evolution of the Art of Avadhana
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- Gitavadhanam the Spectacle of intellectual Brilliance
- Yogasutradadhanam
- Amarakosavadhanam A Fascinating Display of mental Acuity
- Chitrkalavadhanam the Artistic Symphony of imagination
- Sangitageyadhara the Spontaneous Symphony of Poetry and Music in Avadhana Tradition
- Taala Avadhana the Art of Rhythmic Mastery in Karnataka Classical Music
- Ganitavadhanam A Mathematical Marvel
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- Appendix 2 Swami Vivekananda on Concentration
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Author

Sampadananda Mishra

Dr. Sampadananda Mishra, a distinguished scholar in Sanskrit and Indian Knowledge Systems (IKS), has dedicated his life to the study, preservation, and propagation of India's rich linguistic and philosophical heritage. He holds a BA and MA in Sanskrit from Utkal University, where he also completed his Ph.D. with a dissertation on the evolution of the Sanskrit language, inspired by Sri Aurobindo's perspectives. Dr. Mishra is renowned for founding the World's first 24-hour Sanskrit radio channel, Divyavani Sanskrit Radio, in 2013, and for his role as Associate Editor of the ' Collected Works of Vasishtha kavyakantha Ganapati Muni; a landmark twelve- volume publication . His contributions to Sanskrit have earned him several prestigious awards, including the President's Maharshi Badarayana Vyasa Samman and the Sri Aurobindo Puraskar 2024. His career has been marked by a passionate commitment to ensuring that Sanskrit and IKS flourish within both academic and cultural landscapes.



Workshop / Manufacturing Practices (with Lab Manual)

Author :	Veerana D.K.
ISBN 13 :	978-93-55381-54-5
ISBN 10 :	9355381549
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Condition Type :	New
Country Origin :	India

Product Description

The textbook on “Workshop/ Manufacturing Practices” is designed to cater the needs of young minds of 21 century. The AICTE model curriculum and National Education Policy has driven a new wave in the technical education. The textbook is designed not only to cater the need of the syllabus but also to look things in a different perspective. The Workshop is the place where the core of learning about different materials, equipment, tools and techniques takes place. Basically the workshop used to prepare the small components by hand tools. Sometimes they may be parts of the large machines or may may be parts for replacement/repairs. In this text book an attempt has been made to connect the conventional tools usage to advanced machine tools usage. The relevant practical examples are quoted to make the readers more comfortable with product and processes. The blooms taxonomy is fallowed in construction of each chapters and exercises. The objective and multiple questions with higher order thinking may help the readers to not only to face the semester end exam even they may help in competitive and other examinations.

Salient Features:

1. Manufacturing Methods
2. CNC Machining, Additive manufacturing
3. Fitting operations & power tools
4. Electrical & Electronic
5. Carpentry
6. Plastic moulding, glass cutting
7. Metal casting
8. Welding (arc welding & gas welding), brazing

9. Laboratory experiments and models

10. Appendices

11. References

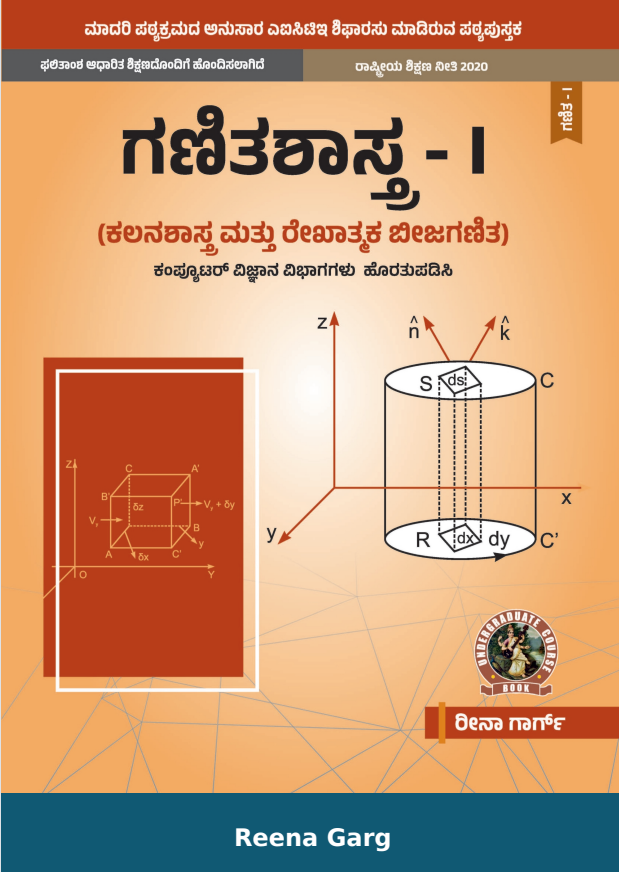
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- Foreword
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- Guidelines for Students
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- CNC Machining, Additive manufacturing, Fitting operations & power tools.
- Electrical & Electronic.
- Carpentry, Plastic molding, glass cutting.
- Metal casting, welding (arc welding & gas welding), brazing.
- Part- B: Workshop Practice Laboratory
- Appendices
- References

Author

Veerana D.K.

The textbook on “Workshop/ Manufacturing Practices” is designed to cater the needs of young minds of 21 century. The AICTE model curriculum and National Education Policy has driven a new wave in the technical education. The textbook is designed not only to cater the need of the syllabus but also to look things in a different perspective. The Workshop is the place where the core of learning about different materials, equipment, tools and techniques takes place. Basically the workshop used to prepare the small components by hand tools. Sometimes they may be parts of the large machines or may may be parts for replacement/repairs. In this text book an attempt has been made to connect the conventional tools usage to advanced machine tools usage. The relevant practical examples are quoted to make the readers more comfortable with product and processes. The blooms taxonomy is fallowed in construction of each chapters and exercises. The objective and multiple questions with higher order thinking may help the readers to not only to face the semester end exam even they may help in competitive and other examinations. Salient Features: I Manufacturing Methods I CNC Machining, Additive manufacturing I Fitting operations & power tools I Electrical & Electronic I Carpentry I Plastic moulding, glass cutting I Metal casting I Welding (arc welding & gas welding), brazing I Laboratory experiments and models I Appendices I References



Mathematics I Calculus and Linear Algebra [For Non Computer Science Engineering Branches]

Author :	Reena Garg
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Condition Type :	New
Country Origin :	India

Product Description

Calculus, Multivariable Calculus and Linear Algebra covers all the Modules prescribed by AICTE. Model curriculum to all the 1st year students (except CSE) studying in engineering institutions and universities of the country. It serves as both text book and / or useful reference work. It contains 5 units which include calculus, matrices, sequences & series and multivariable calculus along with their applications. This renowned and well respected title provides in one handy volume with the essential mathematical tools that helps in understanding the subject and problem solving techniques with many real life engineering applications. As per trademark of AICTE, this book is in student friendly style, author has endeavored enormous efforts in providing numerous solved examples and exercise under each topic to facilitate better understanding of the concepts to the students. Majority of Questions in this book have been designed to success the reader understands of the subject. Professionals or those who are preparing for competitive examinations will also find this book very useful. This book will give the students a complete grasp of the mathematical skills that are needed by engineers all over the country.

Some Salient Features of the Book:

1. In depth coverage of all related, essential and mentioned topics as per AICTE in simple presentation with clarity and accuracy.
2. Emphasis on the applications of concepts and theorems.
3. Core concepts are presented through a large number of solved graded model examples in an innovative and lucid manner.
4. A good number of relatively competitive problems are given at the end of each unit in the form of short questions, HOTS, assignments, MCQs and know more for student's practices purpose. Practical /Projects/ Activity also given in each unit for enhancing the

student's capability, to increase the feeling of team work.

5. To clarify the subject, the text has been supplemented through Notes, Observations and Remarks; an attempt has been made to explain the topic through maximum use of geometries wherever possible.

6. Some standard problems with sufficient hints have been included in each exercise to gauge the student's visual understanding and for grasp the theory.

7. Video links, interesting facts, uses of ICT also included after each topic in every unit for easy understanding of the readers. Also included the pictorial representations of many topics for fast and permanent grasping of the content.

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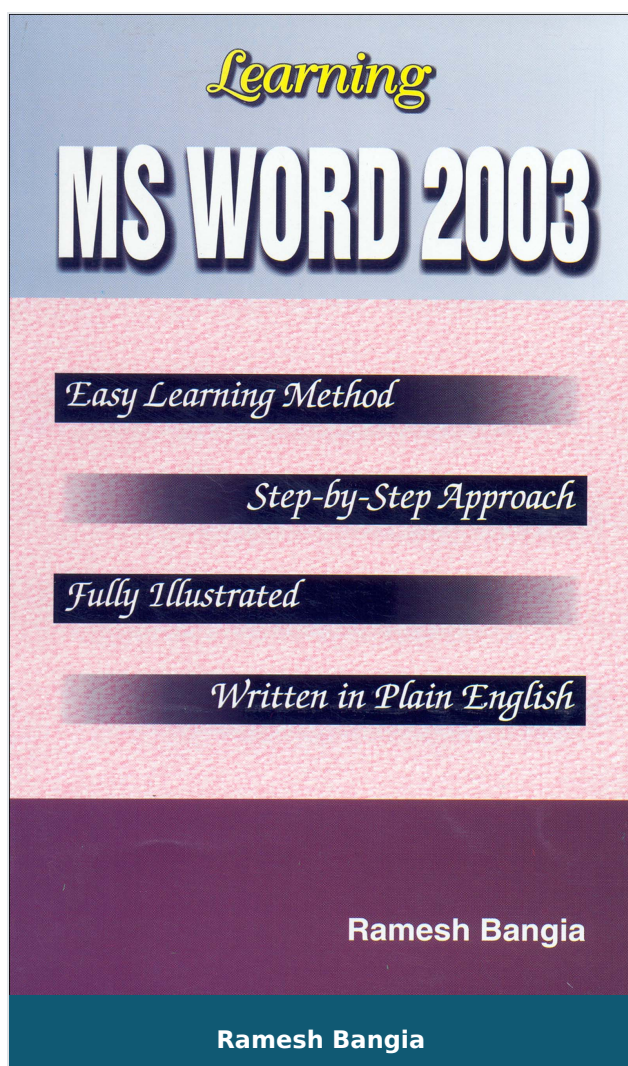
- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Abbreviations and Symbols
- List of Figures
- Guidelines for Teachers
- Guidelines for Students
- Calculus-I
- Calculus-II
- Sequences and Series
- Multivariable Calculus –I
- Matrices
- Index
- CO and Po Attainment Table.

Author

Reena Garg

Dr. Reena Garg , M.Sc. Mathematics (Gold Medalist), M.Phil, Ph.D is Assistant Professor (Mathematics) in YMCA University of Science & Technology, Faridabad (Haryana). She also taught in C.I.T.M. Faridabad (presently known as Manav Rachna International University, Faridabad). Her teaching experience of more than a decade has made this book more valuable for the knowledge seekers. She has published more than 10 research

papers in various International Journals. She is a life-time member of Forum of Inter-disciplinary mathematics in India. She is a member of reviewer Board in IJRET, Bangalore.



Learning MS Word 2003

Author :	Ramesh Bangia
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Country Origin :	India

Product Description

Learning MS Excel 2003

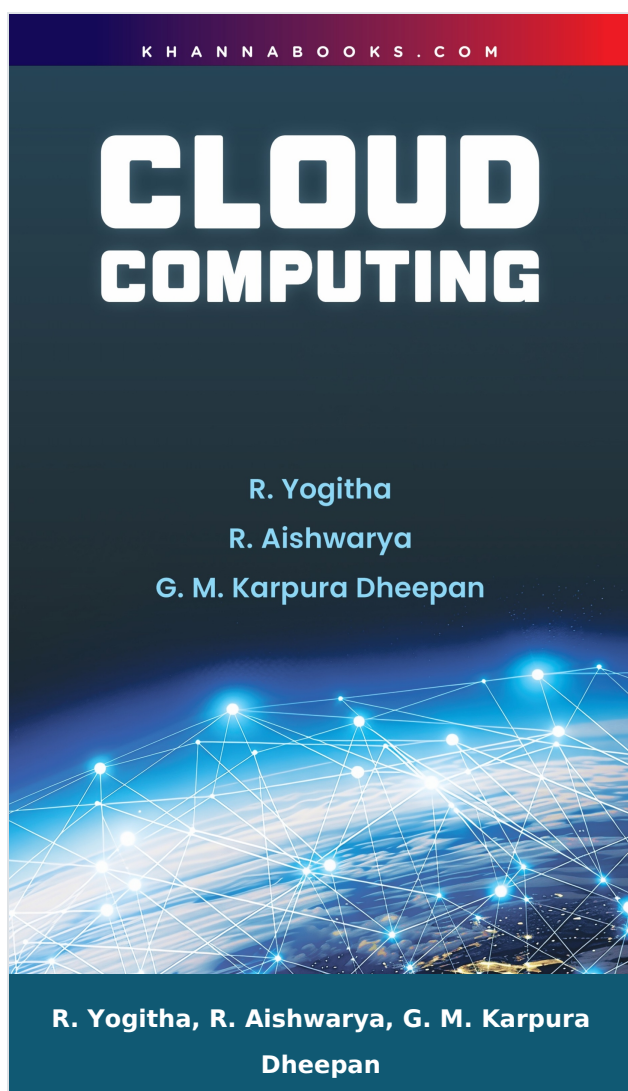
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- Introduction to Word 2003
- Customizing Word 2003
- Creating Documents using Wizards
- Creating Your Documents
- Proofing Your Documents
- Working with Longer Documents
- Working with Tables
- Handwriting and Speech
- Keyboard Shortcuts
- Questions.

Author

Ramesh Bangia

Ramesh Bangia, has been writing computer books on various topics. He has written books for Schools. Training Institutes, Technical Universities, Distance Education Programs, Colleges and General. His tally of books exceeds 500 in number. Trained both in India and Abroad and having studied at IIT Delhi, he becomes automatic choice for most of the publishers in India. Though based in Delhi, his books are popular all over India and are even exported to Middle East and African countries.



Cloud Computing

Author : R. Yogitha, R. Aishwarya, G. M. Karpura Dheepan

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Country Origin : India

Product Description

Cloud Computing

This comprehensive textbook provides a structured and authoritative introduction to Cloud Computing, guiding readers from foundational principles to advanced real-world applications. It serves as an essential resource for students, IT professionals, and researchers seeking to master the technologies that power modern digital infrastructure. The book clearly outlines the origins and essential characteristics of cloud environments, such as Rapid Elasticity, Broad Network Access, and Measured Service, setting the stage for deep dives into implementation. It thoroughly examines the cloud infrastructure, covering foundational technologies like data center components, power efficiency metrics (PUE), and the multi-level implementation of virtualization across CPU, Memory, and I/O. A significant portion is dedicated to cloud architecture, detailing the fundamental service models (SaaS, PaaS, IaaS) and various deployment models (Public, Private, Hybrid). Finally, a major focus is placed on cloud security, detailing the CIA Triad, Zero Trust principles, and modern DevSecOps practices crucial for designing and deploying secure cloud software. By covering these core concepts and modern storage systems (Object, NoSQL Databases), this book delivers both the academic knowledge and the practical value needed to confidently design, manage, and secure scalable cloud solutions.

Salient Features:

- **Core Cloud Characteristics:** The book meticulously details the defining aspects of cloud computing, such as Rapid Elasticity, Measured Service, and On-demand Self-service, contrasting them with traditional IT models for a clear understanding of cloud value.
- **Advanced Infrastructure:** Features an in-depth exploration of data center design, including crucial topics like calculating Power Usage Effectiveness (PUE) and

implementing robust power redundancy configurations (N+1, 2N for high for high reliability)

- **Multi-Level Virtualization:** Explains the foundational role of virtualization by detailing the implementation levels across CPU, Memory, and I/O, including hypervisor types and the mechanics of creating virtual machines
- **Cloud Security Focus:** Provides dedicated coverage of Cloud Computing Software Security, focusing on the CIA Triad (Confidentiality, Integrity, Availability), Zero Trust principles, and legal compliance requirements.
- **Secure Development Practices:** Highlights the adoption of modern security methods like DevSecOps and Secure Development Practices to integrate security into the CI/CD pipeline and mitigate risks from the requirements phase onwards.
- **Comprehensive Service Models:** Offers a detailed comparative analysis of the three fundamental service models-IaaS, PaaS, and SaaS complete with their respective features, benefits, and roles within various cloud architecture
- **Modern Cloud Storage:** Delves into scalable data management, covering distributed file systems (HDFS, Ceph FS), NoSQL cloud databases (MongoDB, Dynamo DB), and industry-leading Object Storage solutions (Amazon S3, Ceph).

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- Cloud Introduction
- Cloud Infrastructure
- Cloud Architecture
- Cloud Computing Software Security
- Cloud Storage

Author

R. Yogitha

R. Yogitha Associate Professor, Dept of CSE, Sathyabama Institute of Science and Technology

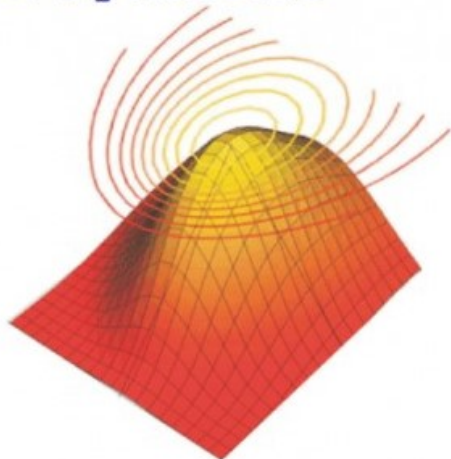
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G. M. Karpura Dheepan

G. M. Karpura Dheepan Associate Professor, Dept of CSE, Sathyabama Institute of Science and Technology

Fundamental of Network Analysis & Synthesis



Pradeep Kumar

Pradeep Kumar

Fundamental of Network Analysis & Synthesis

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Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Product Description

This book is written according to new revised syllabus of U.P. Technical to Electronics and communication Engineering, Electronics and Instrumentation Engineering. This book is providing the knowledge in depth for fundamentals of network analysis and synthesis, amplitude and phase response, two port networks, designing of the active and passive filters with suitable number of examples. This book has evolved the lecture material prepared by the author to teach the course network analysis and synthesis. The material provided in this book is in a lucid manner along with very simple language. The students can easily grasp the information. each chapter is written in the systematic manner along with the coverage of the basic theoretical concepts, analytical techniques also with sufficient examples.

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- Network Analysis-1
- Introduction to Laplace Transformation
- Network Analysis-II
- Amplitude and Phase Response
- Two Port Network
- Network Function
- Positive Real Function
- Driving Point Synthesis
- Elements of Transfer Function Synthesis
- Active Network Synthesis
- Index

Author

Pradeep Kumar

Pradeep Kumar is presently working as Lecturer in Department of Electrical Engineering at Babu Banarasi Das National Institute of Technology and Management, Lucknow. He did his B.Tech in Electrical Engineering from Uttar Pradesh Technical University, Lucknow. He teaches courses on Electric Machines, Network Analysis and Synthesis, Electromagnetic Field Theory, Basic Electrical Engineering.



Engineering Workshop Practice

Author :	A. K. Sarathe
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Condition Type :	New
Country Origin :	India

Product Description

“ Engineering Workshop Practice Manual” is a common paper for the first year Diploma course in Engineering & Technology. Syllabus of this book is strictly aligned as per model curriculum of AICTE and academic content is amalgamated with the concept of outcome based education.

Engineering Workshop Practice manual covers five units- First unit deals with the carpentry, second unit is about fitting , third unit focuses on welding, fourth units discusses about sheet metal working and the fifth unit deals with electrical house wiring . The manual comprises of total seventeen workshop practical from P1 to P17 and the same are arranged in hierarchical manner from simple to complex so that students should not only focus on completing the practical and getting the marks/ grades but will also be motivated to create useful products incorporating their creative and critical thinking as well.

Some salient features of the book:

1. Content of the manual aligned with the mapping of Course Outcomes, Programs Outcomes and practical outcomes.
2. Relevant theory has been included at the beginning of each practical.
3. The manual has been developed to ensure alignment with the Outcome Based Education philosophy and consisting of total seventeen workshop practical.
4. Unit wise practical are arranged in hierarchical manner from simple to complex.
5. Manual provides recent information and QR Code for E-resources etc.
6. Figures, photographs and table are inserted to improve clarity of the content.

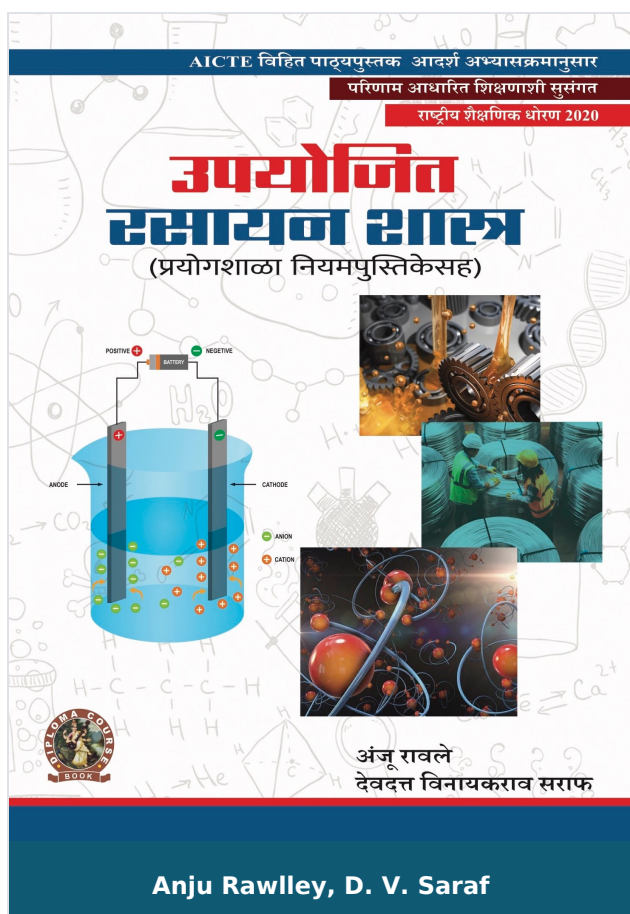
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- Foreword,
- Acknowledgement,
- Preface,
- Outcome Based Educations,
- Course Outcomes,
- Abbreviations and Symbols,
- List of Figures,
- List of tables Guidelines for Teachers,
- Guidelines for Students
- Carpentry
- Fitting
- Welding Tools and Equipment
- Sheet Metal Working
- Electrical House wiring
- Index

Author

A. K. Sarathe

A. K. Sarathe



Applied Chemistry (with Lab Manual)

Author : Anju Rawlley, D. V. Saraf

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E-ISBN 13 : 978-93-55380-47-0

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Publisher : Khanna Publishing House

M.R.P : Rs 395.00

Categories : [AICTE Prescribed Textbooks,](#)
[Marathi Books, Book Store,](#)
[Ebooks](#)

Condition Type : New

Country Origin : India

Product Description

This text book o “Applied Chemistry” is development as per AICTE model curriculum ,2018, for compulsory course on Applied Chemistry of first years Diploma Program in Engineering and Technology. Atomic Structure, Chemical Bonding & Solution, Water, Engineering Materials, Chemistry of fuels & Lubricants and Electrochemistry are the five units of this book, comprising of both practical and theory.

Some salient features of the book:

1. Course Outcomes and Unit Outcomes are written specifically and are mapped with program Outcomes.
2. Utmost care have been taken to amalgamate the philosophy of outcome based education.
3. The structure of the textbook is comprehensive, where in practical exercises are integral part of each unit.
4. The text is presented in a very simple way with illustrations, examples, tables, flow chart, self -assessment questions and their solutions.
5. Micro projects, points/issue for the creative inquisitiveness & curiosity, know more, video links, case study and summary points are integral part of each unit to facilitate the students to develop the attitude of scientific inquiry, investigate the cause and effect relationship, systematic, scientific & logical thinking , ability to observe, analyse and interpret.
6. To meet the requirement of outcome based education (OBE) and outcome based assessment (OBA), criterion referenced testing (CRT) have been used as an integral part of assessment in each practical.

7. Sample QR codes have been provided in each units on some topics/sub topics for supplementary reading and reinforcing the learning.

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- Engineering Materials
- Chemistry of Fuels and Lubricants
- Electro Chemistry

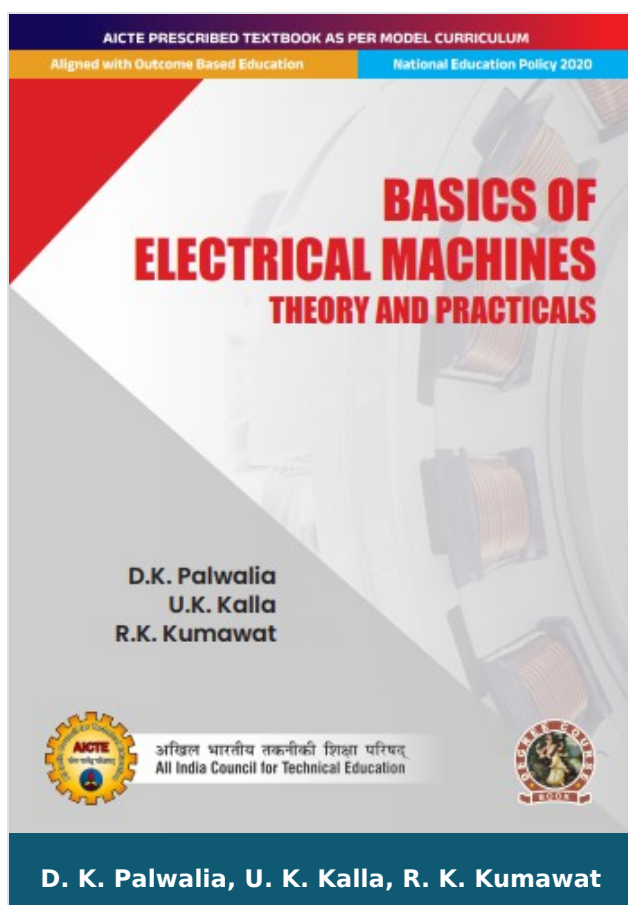
Author

Anju Rawlley

Anju Rawlley Devdatta Vinayakaraao Saraf

D. V. Saraf

D. V. Saraf



Basics of Electrical Machines: Theory and Practicals

Author : D. K. Palwalia, U. K. Kalla, R. K. Kumawat

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Publisher : Khanna Publishing House

M.R.P : Rs 798.00

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[English Books, Book Store](#)

Condition Type : New

Country Origin : India

Product Description

Basics of Electrical Machines: Theory and Practicals

The Basics of Electrical Machines: Theory and Practical” is a comprehensive guide that provides a solid foundation in the principles and practical applications of electric machines. It covers magnetic circuits, electro-mechanical energy conversion, DC motors and generators, and transformers. By exploring these topics, readers gain insights into the fundamental principles of electric machines and their role in various industries. The book strikes a balance between theory and practice, offering clear explanations, examples, case studies, and problem-solving exercises. It aims to equip readers with a comprehensive understanding of electric machines and bridge the gap between theoretical concepts and their practical applications.

Salient Features:

- Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR Code for E-resources, QR Code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a ‘Know More’ section is also provided in each unit to extend the learning beyond syllabus.

- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems including numerical examples are solved with systematic steps.

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- Electromagnetic Force and Torque
- DC Machines
- DC Machine – Motoring and Generation
- Transformers
- Appendices
- References for Further Learning
- Co and Po Attainment Table
- Index

Author

D. K. Palwalia

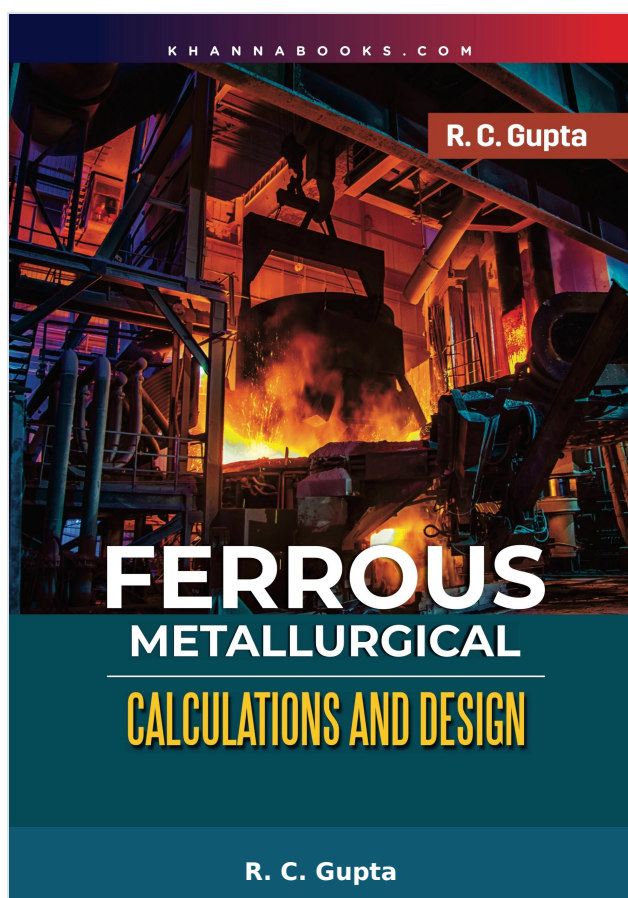
Prof. D. K. Palwalia Professor Department of Electrical Engineering, Rajasthan Technical University, Kota Dr.

U. K. Kalla

Dr. U. K. Kalla Associate Professor Department of Electrical Engineering, MANIT, Bhopal Dr.

R. K. Kumawat

Dr. R. K. Kumawat Assistant Professor Department of Electrical Engineering, I K Gujral Punjab Technical University Amritsar



Ferrous Metallurgical (Calculations and Design)

Author :	R. C. Gupta
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Product Description

This book is a unique combination of ferrous metallurgical calculations and unit design. The book is divided in two parts each having eight chapters.

The part one on ferrous metallurgical calculations gives method to calculate mass balance, chemical analysis of the product and waste materials including exit gases. This part one covers Coal & Its Properties, Combustion of Fuels, Coke Making, Iron Ore Agglomeration, Blast Furnace Iron Making, Alternate Methods of Iron Making, Ferroalloy Preparation and Melting Metal & Alloys.

The second part on Ferrous Metallurgical Unit Design may be a globally first attempt to provide method of estimating basic design dimensions of some metallurgical units. This part covers Chimney & Draught, Coke Oven, Blast Furnace, DRI Kiln, Ladle Cupola, Basic Oxygen Steel Making Furnace, and Electric arc Furnace.

In addition, the appendices provide weight, Measure & Science Laws, Mathematical Formulae, Unit Conversion Tables, Useful Data, Commonly Used Materials, Raw, Materials for Iron & Steel Making, Fuels and their Properties and Steel Plant Waste materials.

Keys features

1. A useful book for Academic Staff & Students in Metallurgical Engineering, Steel Plant Executives, Metallurgical Consultants, Steel Plant Managers, Chartered Engineers, and Auditors.
2. A Metallurgical Engineering book giving calculation method for mass balance, product & waste analysis in various ferrous metallurgical processes.
3. A first book to give method for designing metallurgical units e.g. coke oven, blast furnace, DRI Kiln, BOF, EAF, Ladle, Cupola etc.

4. Each chapter starts with introduction to highlight importance before giving calculation or design & each chapter gives projects for students. Some reference for further reading is also given at the end of chapters.

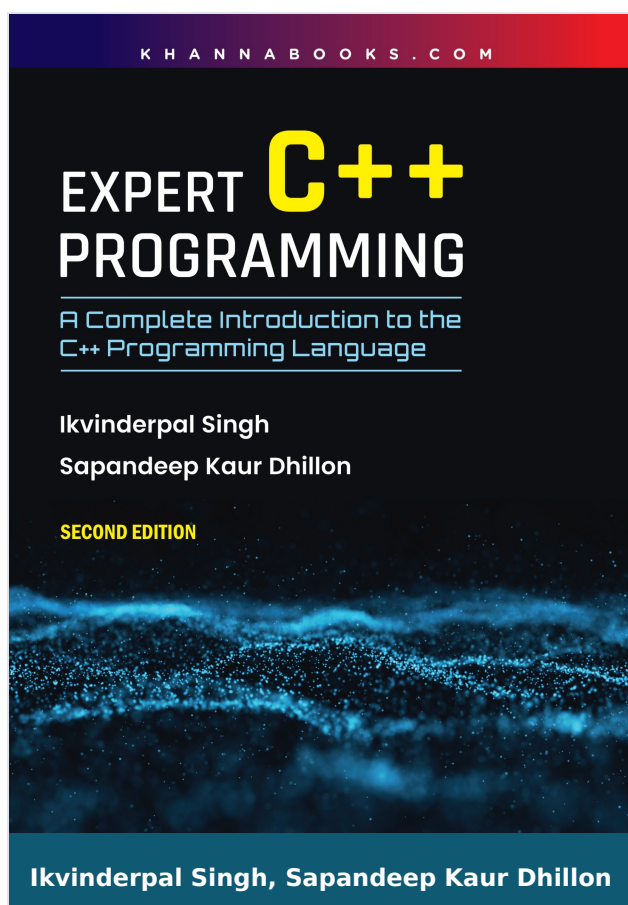
Table Of Contents

- Part A: Ferrous Metallurgical Calculations
- Coal and its Properties.
- Combustion of Fuels.
- Coke Making.
- Iron Ore Agglomeration.
- Blast Furnace Iron Making.
- Alternate Methods of Iron Making.
- Ferroalloy Making.
- Melting Metals & Alloy.
- Part B: Ferrous Metallurgical Unit Design.
- Chimney & Draught.
- Coke Oven Dimensions.
- Blast Furnace Dimensions.
- DRI Kiln Dimensions.
- Ladle Dimensions.
- Cupola Dimensions.
- Basic Oxygen Steel Making.
- EAF Steel Making.
- Appendix

Author

R. C. Gupta

Prof. R C Gupta is an alumni, Former Professor and Head, Department of Metallurgical Engineering (Advanced Centre in Metallurgy), Institute of Technology (now IIT-BHU), Banaras Hindu University, Varanasi (India). In his four decades (1970-2010) teaching and research carrier he guided many students for their PhD, M. Tech., and B. Tech. degree in Metallurgy. He held various positions in national & international forums including Ministry & Forest (Delhi-GOI) & Pollution Control Board (Bhubaneswar-Odisha State). The Author is globally known by his three popular PHI (Delhi) textbooks: Theory & Laboratory Experiments in Metallurgy (2009 & 2025), Energy & Environmental Management in Metallurgical Industries (2012), and Fuels Furnaces & Refractories (2016). His chapter on Energy Resources, Its Role, and Use in Metallurgical Industries in Elsevier's publications (2014 & 2024) on Treatise in Process Metallurgy (Chief Ed. Sheshadri Seetharaman) has made global imprint. In view of his books and other research publications (>140 nos.) the author is included in world top 2% scientist prepared by a Group of Professors at Stanford University (USA) in 2020.



Expert C++ Programming

Author : Ikvinderpal Singh, Sapandeep Kaur Dhillon

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Product Description

Written with the beginner in mind, this book provides an exceptionally clear and precise detail of c++ programming. Its approach is explanatory and language is lucid and communicable. Each and every concept described with the help of its pictorial representation, examples, and solved programming to have clear ideas. Each chapter contains programming problems, objective type questions, and exercises. This book will be useful for student of BE(Computer/Electronics), B. tech, ME(Computer/Electronics), M. Tech, MCA, BCA, M.Sc., B.Sc., and also to students pursuing A/B/C-level Course of DOEACC.

Salient Features

- Detailed description to object-oriented programming and its features. It also includes evolution of C++ in detail.
- Complete introduction to C++ programming including basic structure is given in detail. Extensive coverage of constants, variables, various data types are given in detail.
- Various types of operators and expressions are described with the help of examples and simple programs.
- Demonstrates the description of console I/O statements in a lucid manner.
- Each and every control statement is described with the help of flowcharts and simple programs.
- Includes numerous illustrative examples to understand the topic easily.
- Demonstrates every program in a good programming style.
- Around 500 solved C++ programs are included.
- Around 300 objective type questions are included.
- Gives detailed description of arrays, strings and functions in lucid manner.

- Covers all concepts of array, pointers like array and pointer, function and pointer, dynamic memory allocation in detail. It also includes concept of structure and union.
- Covers all concepts of classes and constructor in a lucid manner, it also covers operator overloading; each and every operator is overloaded using programming techniques.
- All types of inheritance and polymorphism are given in detail with new concepts like virtual inheritance, aggregation, composition, virtual function, object slicing etc.
- Covers different special functions like inline, friend, static, const, volatile etc. with the help of examples and simple programs.
- Presents various streams and files operations like open (), close (), seek (), reading and writing a file, working with streams etc.

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- C++ Programming Basics
- Operators and Expressions
- Console Input and Output in C++
- Control Statements
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- More About Classes
- Operator Overloading
- Inheritance
- Polymorphism and Virtual Function
- Exploring Special Functions
- C++ Streams and Files
- Templates
- Exception Handling
- Standard Template Library and Namespaces

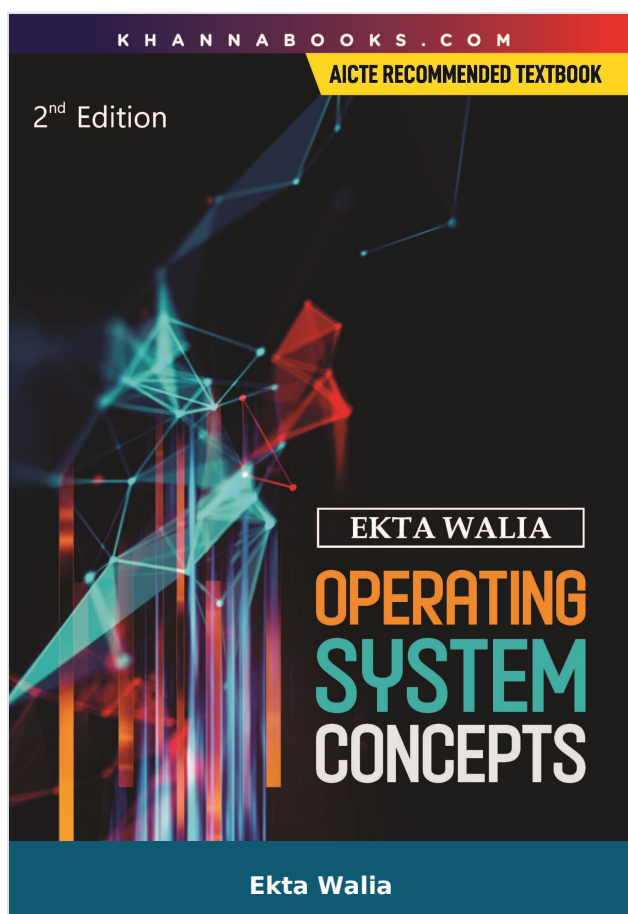
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Ikvinderpal Singh

Dr. Ikvinderpal Singh is an Assistant Professor at Trai Shatabdi Guru Gobind Singh Khalsa college Amritsar, bringing 17+ years of academic leadership and research experience to the field of computer science. A Gold Medalist in B.Sc. IT, with an MCA (Distinction) and a Ph.D. in Neural Networks and Image Processing, he is known for blending rigorous research with practical innovation. A prolific academic creator, he has authored 37 books, published 82+ research papers, and designed 100+ industry-aligned skill-development courses. His expertise extends to doctoral evaluation, supervision, and active participation on 100+ editorial and review boards worldwide.

Sapandeep Kaur Dhillon

Sapandeep Kaur Dhillon is an assistant professor in the department of computer science, Guru Nanak Dev University, Amritsar, bringing 12+ years of dedicated academic experience to the discipline. She has authored 4 books, published 10+ research papers across national and international journals, reflecting her steady engagement with emerging trends in computing. Her academic interests span data structures, Compiler Design, and Artificial Intelligence, where she integrates foundational theory with practical, algorithmic thinking.



Operating System Concepts

Author :	Ekta Walia
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Product Description

This is a revised edition of the eight years old popular book on operating System Concepts. In Addition to its previous contents, the book details about operating system foe handheld devices like mobile platforms. It also explains about upcoming operating systems with have interface in various Indian language. In addition to solved exercises of individual chapters, the revised version also presents a question bank of most frequently asked questions and their solutions. Value addition has been done in almost all the 14 chapters of the book.

Table Of Contents

- Operating System : An Introduction
- Computer System Structures
- Operating System Structures
- Introduction To Processes
- CPU Scheduling
- Process Synchronization
- Dealing with Deadlocks
- Memory Management Basics
- Managing Virtual Memory
- File System Interface and Implementation
- Device Management and Storage Structures
- Protection Security
- Operating System for Distributed Systems
- Case Studies- UNIX and Windows NT
- Solution to Selected Exercise
- Frequently Asked Questions and their Solutions
- Index

Author

Ekta Walia

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