

Case Studies in Construction Project Management

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Product Description

Case studies in this book show how project were completed because of initiatives and out-of- the -box thinking.

This book is to provide young architects and engineers insight into evolving innovates solution in dealing with complex situations that during implementation of construction projects.

Majority of cases reflect personal experience of the authors in their professional career.

Engineering profession is difficult and exciting as solutions are to be found at each & every stage of the project.

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Author

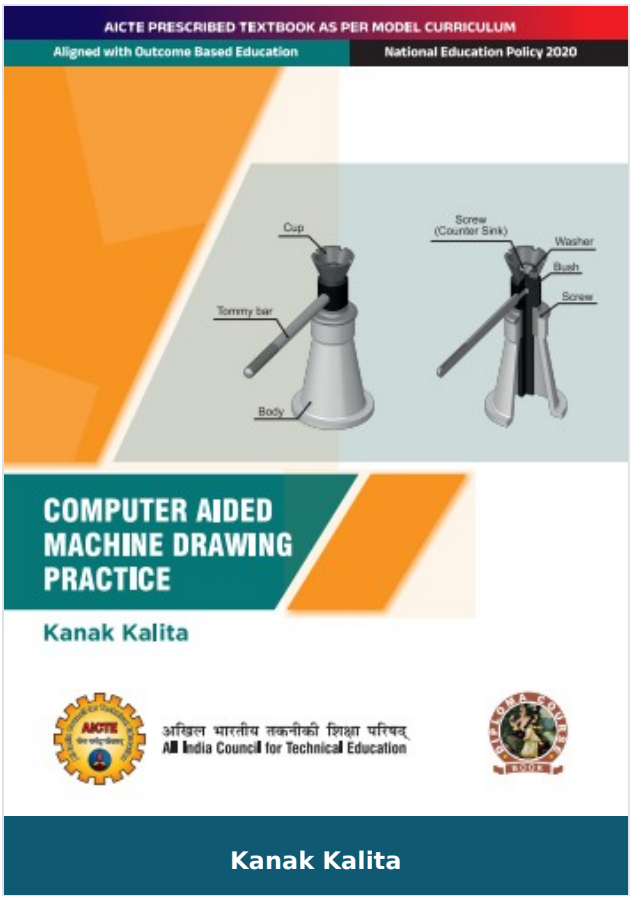
K. B. Rajoria

K. B. RAJORIA K B Rajoria did BE (Hons) in Civil Engineering from MBA Engineering College, Jodhpur in 1961 and ME (Gold Medallist) , in Soil Mechanics and Foundation Engineering from Indian Institute of Technology Roorkee in 1963. He was also a faculty member in this Institute. He joined Central PWD in 1963, and worked in different capacities in the Government including hill road project in Nepal, prestigious Parliament Secretariat Building in New Delhi, several building and hill road projects in Arunachal Pradesh, Water Research Center Project at Bagdad (Iraq), projects for Delhi Development Authority etc. He worked at the Government of Delhi where projects to his credit include Delhi College of Engineering, Hospital Projects, Delhi Secretariat Building and a number of flyover projects. The Super animated as Engineer-in- Chief Government of Delhi. He was bestowed with important honorary positions such as Presidents, Indian Buildings Congress, President, and Indian Roads Congress as also Chairman, Quality and Safety Forum, the Institution of Engineers. He was awarded Gold Medal for outstanding services in Arunachal Pradesh, Certificate of Outstanding Achievements by Govt. of Delhi and Award for 'Outstanding Engineer' by the Institution of Engineers. He has published several

technical papers in professional journals and authored books on various aspects of construction. A book titled; "ISO 9000 Practices in Construction" authored by him has been published recently.

H. K. Srivastava

H. K. SRIVASTAVA H K Srivastava did B Tech (Hons) in Civil Engineering in 1969, and Masters in Structures in 1917, both from IIT Kharagpur. He joined faculty at IIT, BHU for one year prior to joining CPWD in 1972. He worked in different capacities for more than 38 years from Assistant Executive Engineer to Additional DG, CPWD. H K Srivastava has worked in different geographical areas as well as across different organizational cultures within the country and abroad. Worked on road project in Arunachal Pradesh, East-West Highway Project Nepal, Delhi PWD, Indo Bangla Border Road Project and Rural Roads for PMGSY. He has carried out design of multi storied building at Delhi, as also bridges in Nepal and West Bengal. He experience of working for Ministry of Finance real estate investments for Income tax purposes, and as also with NBCC on projects in Iraq at Kirkuk, Mosul and Baghdad during mid-eighties. He is a member of various professional bodies. He has a number of technical papers to this credit. As an active member to Humane Resource Development Committee of IRC, he has been closely associated with the development of 'Guidelines on Skill development of Workmen in Road Sector (IRC:128-2019).



Computer Aided Machine Drawing Practice

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Product Description

Computer Aided Machine Drawing Practice

Computer Aided Machine Drawing Practice offers a comprehensive guide into the world of computer-aided design (CAD) with a focus on machine drawing. As technology evolves, the importance of CAD in the fields of mechanical engineering, automotive design and manufacturing is paramount. This book serves as an essential resource for students and professionals in these domains. Starting with the basics of AutoCAD, the book gradually introduces the reader to its intricacies, with practical insights into 2D and 3D modelling.

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units 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.
- This book is not just an academic tool, but a bridge to the professional world of machine drawing design, making it a must-have for anyone stepping into the realm

of computer-aided design

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Author

Kanak Kalita

Dr. Kanak Kalita Associate Professor, Dept. of Mechanical Engineering (ME), Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai, Tamil

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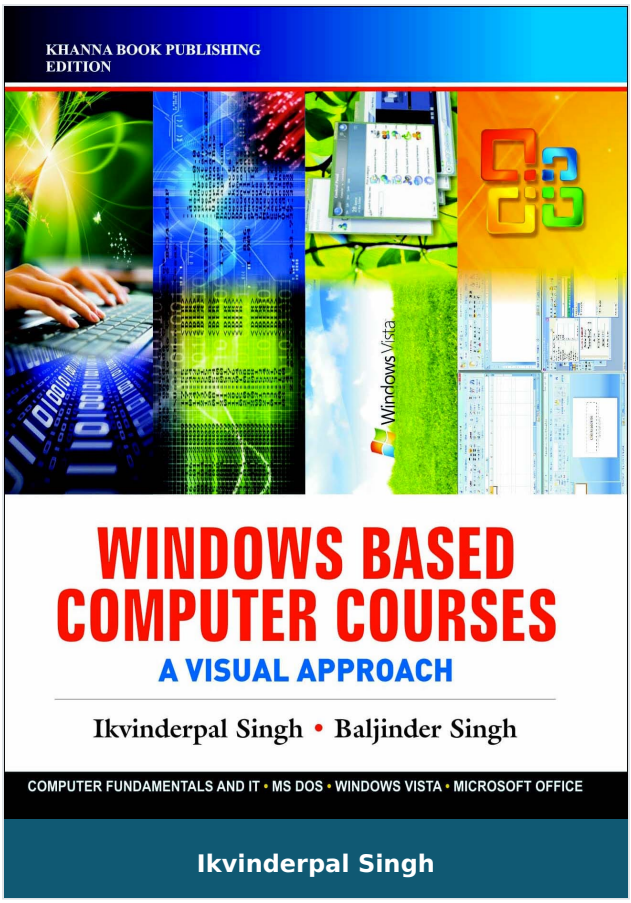
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Windows Based Computer Courses

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Product Description

This book is meant for a wide range of readers who with to learn the basic concepts of computer fundamentals, MS DOS, window vista and Microsoft office 2003. In this book we cover all basic concepts of first year computer courses of various Indian Universities in a systematic and simplified manner. While writing this book, it was kept in mind to include only the relevant topics so that it is useful both for learning and reference purpose.

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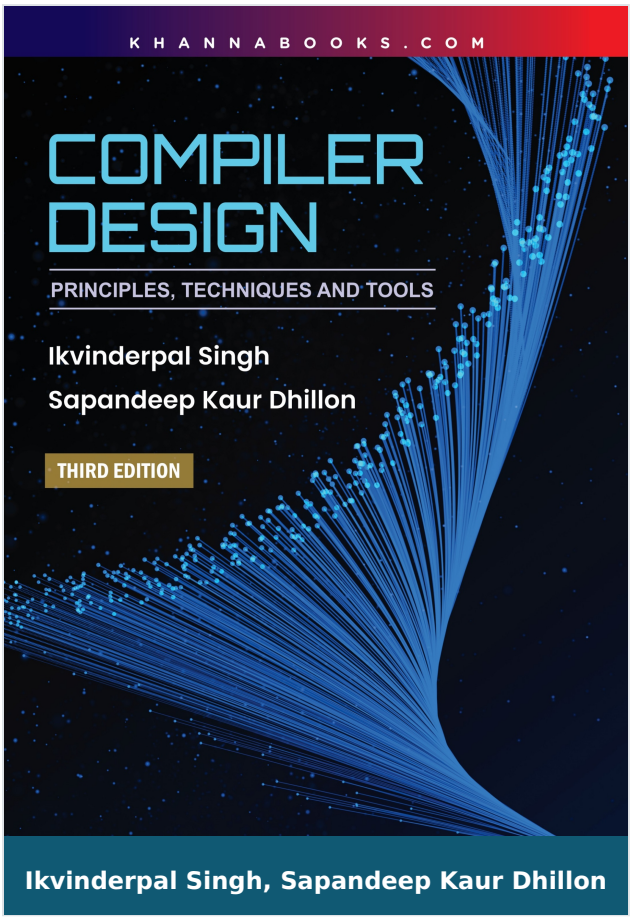
Ikvinderpal Singh

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.

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Compiler Design

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Product Description

Compiler design

Compiler design is a subject which many believe to be fundamental and vital to computer science. It is subject which has been studied intensively since the early 1950’s and continues to be an important research field today. It is intended for both students and practitioners, retaining its appeal as a guide to the industry professional and a comprehensive introduction to the student at the upper level undergraduate or first year graduate level. 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

- Gives an introduction the basics of compiler design
- Describes the lexical and syntax analysis.
- Deals with symbol table management.
- Describes the storage management.
- Gives the details of code generation and optimization.
- Gives a detailed explanation of various types of compilers.
- Gives a case study of YACC and its implementation.

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- Storage Management
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- Code Optimization
- Types Of Compilers

Author

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

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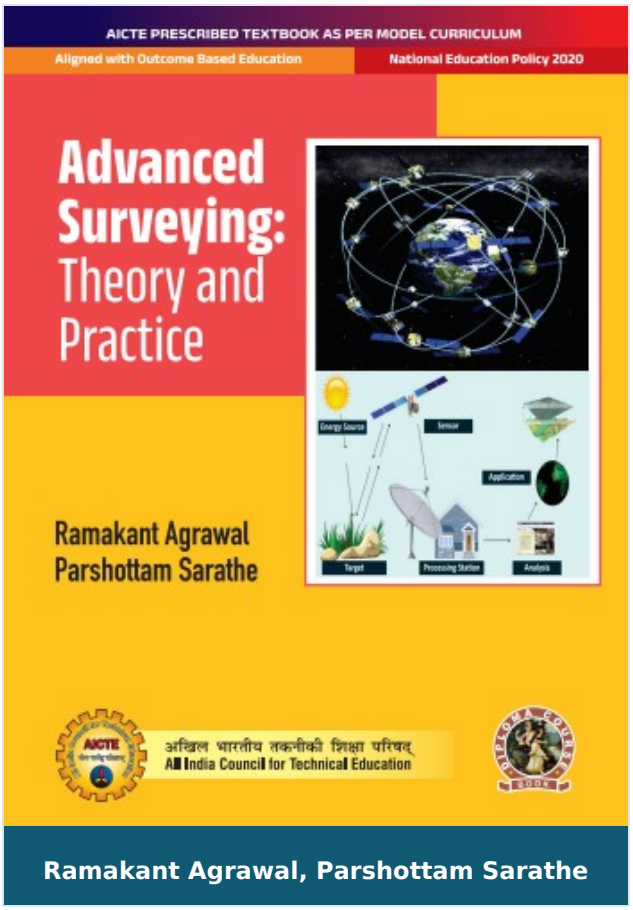
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across national and international journals, reflecting her steady engagement with emerging trends in computing. Her academic interests span data structures, Compiler Design, and Artificial Intelligence, where she integrates foundational theory with practical, algorithmic thinking.

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Advanced Surveying: Theory & Practice

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Product Description

Advanced Surveying: Theory & Practice

This book contains advanced topics of surveying for fourth semester students of diploma course strictly as per syllabus and model curriculum of AICTE and aligned with the theme of outcome-based education according to National Education Policy 2020. This book comprises of six chapters covering topics on plane table Surveying. Theodolite, tacheometry. Curves, total station, Electromagnetic measurement, Remote sensing and GPS & GIS.

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units 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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Author

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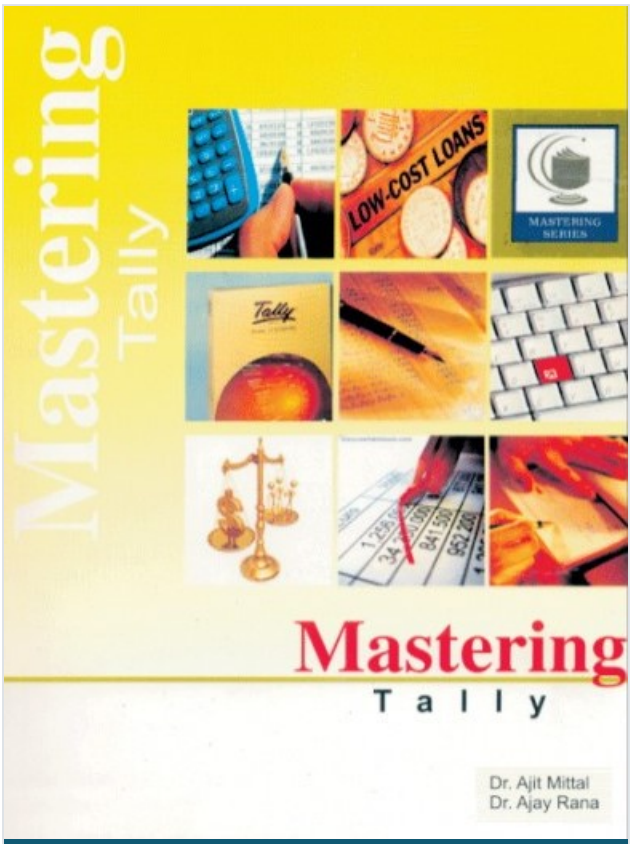
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Ajit Mittal, Ajay Rana

Mastering Tally

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Product Description

Tally is an accounting software, very popular with the accountants and other computer users who need to do some accounting over the computer. It not only helps you in maintaining the accounts, but also helps you in taking care of your inventory, billing, invoicing, payroll, etc. No wonder it is the most popular one amongst its competitors. Various versions of the software are available in the market, with the latest being tally.ERP9. (version 2.1). This book, one of its kinds available in the market, is unique in nature since it covers all the versions in a single book. It traces back the various aspects of the software through the various options introduced in various versions. Obviously these options are there in the final version too, but it is important to know when and where they were introduced. So these topics are covered where they were introduced and not as part of the latest version, i.e., version 9.0. The versions covered here are from 7.2 to 9.0.

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Ajit Mittal

Dr. Ajit Mittal M. Com. Ph.D. (U.P) MBA (Finance) Professor, Amity International Business School, Amity University , Noida. "

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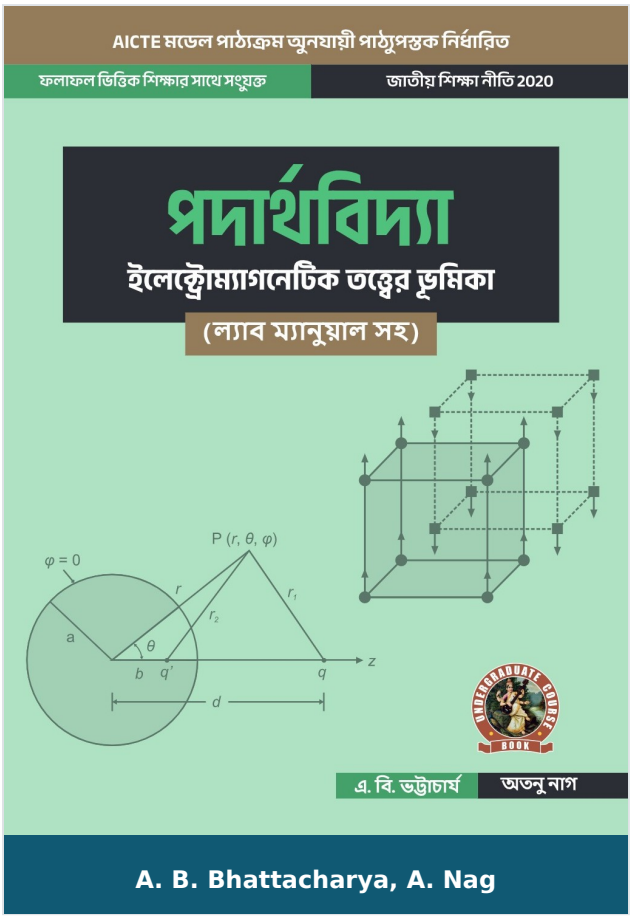
Ajay Rana

Dr. Ajay Rana Professor, Department of Computer Science & Engineering Dean and Director, Amity University 30+ patents under his name in the field of IoT, Network & Sensors 279+ Research publications Co-authored 6 Books Completed 30 Sponsored Research Projects Senior member, Academic Council & Executive Council, Amity University Strong corporate connect

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Physics (Introduction to Electromagnetic Theory) (with Lab Manual)

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Product Description

Engineering Physics: Introduction to Electromagnetic Theory has been written for the first year students of B. Tech Engineering Degree Courses of all Indian Universities following the guideline and syllabus as recommended by AICTE. The book, written in a very simple and lucid way, will be very much helpful to reinforce understanding of different aspects to meet the engineering student’s needs Writing a text-cum manual of this category poses several challenges providing enough content without sacrificing the essentials, highlighting the key features, presenting in a novel format and building informative assessment. This book on engineering physics will prepare students to apply the knowledge of Electromagnetic Theory to tackle 21st century and onward engineering challenges and address the related questions.

Some Salient Features of the Book:

· Expose basic science to the engineering students to the fundamentals of physics and to enable them to get an insight of the subject.

· To develop knowledge on critical questions, solved and supplementary problems covering all types of medium and advanced level problems in a very logical and systematic manner.

· Some essential information for the users under the heading “know More” for clarifying some basic

· Information as well as comprehensive synopsis of formulae for a quick revision of the basic principles.

· Constructive manner of presentation so that an Engineering degree students can prepare to work in different sector or in national laboratories at the very forefront of technology.

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A. B. Bhattacharya

Prof. A. B. Bhattacharya did his MSc and PhD degree from the University of Calcutta in Physics and Post-doc from the Massachusetts Institute of Technology (MIT), Cambridge, USA. He worked in close collaboration with the leading laboratories like Lincoln Laboratory; Milestone Hill Observatory; Earth, Atmospheric and Planetary Sciences division of MIT and many other well recognized laboratories in India and abroad. He served as Professor & Head of the Department of Physics, University of Kalyani; Dean of Research and Head of the ECE Department, Techno India University; Pro Vice Chancellor of JIS University and Director of Brainware University. He has published 32 text books for Science and Engineering students, two popular books for general readers and over 400 research articles in reputed International Journals. Under his supervision 24 scholars received their doctoral degree. He is a fellow of the Institute of Electronics and Telecommunication Engineers and member of many scientific organizations. India International Friendship Society awarded him the prestigious "Shiksha Ratna Award" and Certificate of Excellence for meritorious services, outstanding performance and significant contribution to education. The International Institute of Success Awareness hon0red him with their globally recognized "Glory of India Gold Medal" for his outstanding contribution to the national stature of India. A few words from the certificate issued by Prof. Williams of MIT may be quoted "Our collaborative effort was directed at the wavelength dependence of radar echoes observations with the Millstone Hill UHF radar in Westford. He made use of the Charles River Data System computer in the Weather Radar Laboratory for these calculations. His results help to make a convincing case that the volume reflectivity associated with lighting is a diminishing function of radar wavelength, contrary to contemporary thinking". Dr.

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A. Nag Dr. Atanu Nag did his M. Sc. in 2007 and Ph. D. in 2013 from the University of Kalyani. He has published over 50 Journal papers and 5 books for Science & Engineering students. Presently he is the Head and Associate Professor in the Department of Physics, Modern Institute of Engineering & Technology, Hooghly, West Bengal.

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Applied Chemistry (with Lab Manual)

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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.

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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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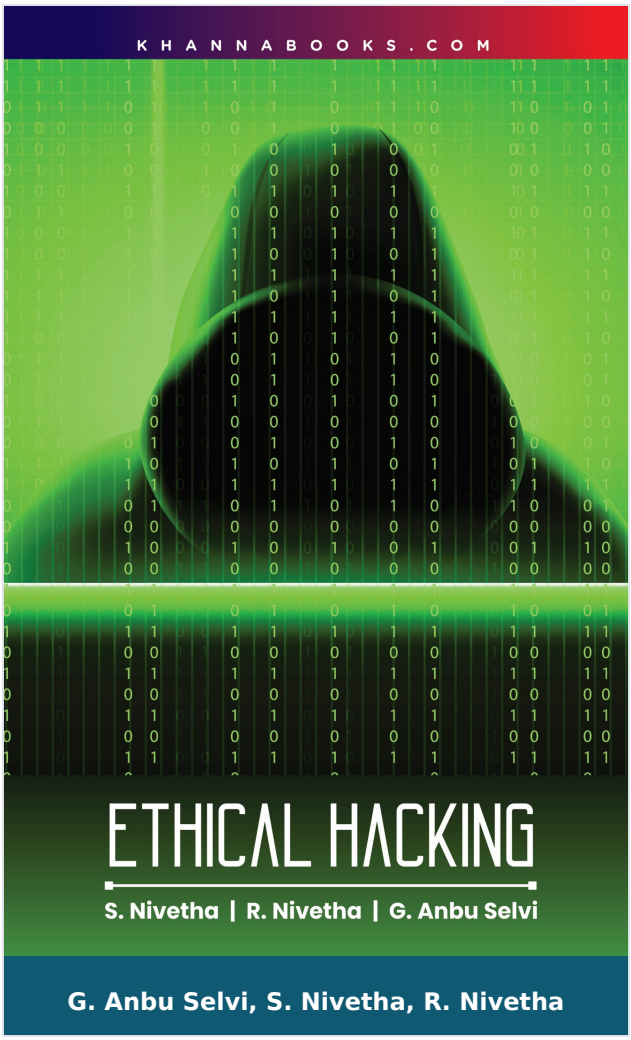
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Ethical Hacking

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Product Description

In the rapidly evolving digital landscape, where cyber threats are increasing in complexity and frequency, Ethical Hacking stands as an indispensable guide for mastering proactive cybersecurity defense. This book is meticulously designed to introduce readers to the fundamental concepts and practical methodologies of Ethical Hacking and Penetration Testing. It is structured to align with a dedicated cybersecurity curriculum, making it an ideal resource for students in Computer Science and related fields, as well as cybersecurity enthusiasts and IT professionals aiming to enhance their skills.

The core theme of the text is to transform the reader into an authorized "White Hat" hacker, equipping them with the technical expertise and ethical mindset required to fortify digital infrastructures. It achieves this by delving into crucial, real-world topics such as the phases of ethical hacking, detailed penetration testing methodologies, information gathering, enumeration, vulnerability scanning, and network sniffing. Beyond theoretical knowledge, the book emphasizes hands-on experience, featuring practical exercises and case studies that allow readers to apply knowledge in live cybersecurity scenarios.

By exploring various tools and techniques, readers learn to think like security analysts, adopt a proactive approach to cyber threats, and serve as the critical first line of defense in protecting systems and data integrity. This comprehensive guide provides the strong foundation necessary for anyone aspiring to a career as an ethical hacker, penetration tester, or cybersecurity analyst.

Salient Features:

• Structured Pen Testing: Covers the end-to-end methodology, including planning, reconnaissance, discovery, active intrusion, and final analysis for comprehensive security audits.

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• Essential Tool Mastery: Provides practical guidance on using critical industry tools such as Nmap, Nessus Vulnerability Scanner, Wireshark, and Acunetix for hands-on experience.

• Assessment and Mitigation: Details the process of vulnerability assessment and risk assessment, including scoping, scanning, reporting (using CVSS scores), and prioritizing crucial fixes.

• Intelligence and Reconnaissance: Explores both active and passive information gathering (Footprinting) to collect data without direct interaction, forming the blueprint of a target network infrastructure.

• Network Defense Deep Dive: Dedicated coverage of network attacks, including ARP Spoofing, Denial of Service (DoS), DNS/DHCP Spoofing, and how to defend against these crucial vectors.

• Ethical Hacking Mindset: Clearly distinguishes White Hat from Black Hat activities, emphasizing the legal and ethical standards required for authorized penetration testing.

• Practical Case Studies: Includes case studies and practical exercises throughout the units to reinforce learning and ensure readers can apply their technical knowledge in real-life scenarios.

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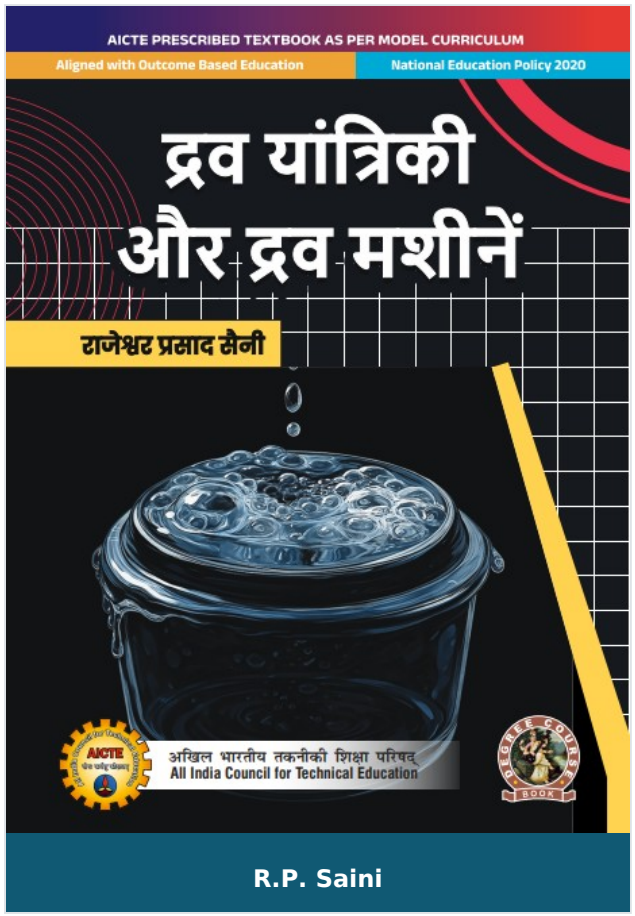
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