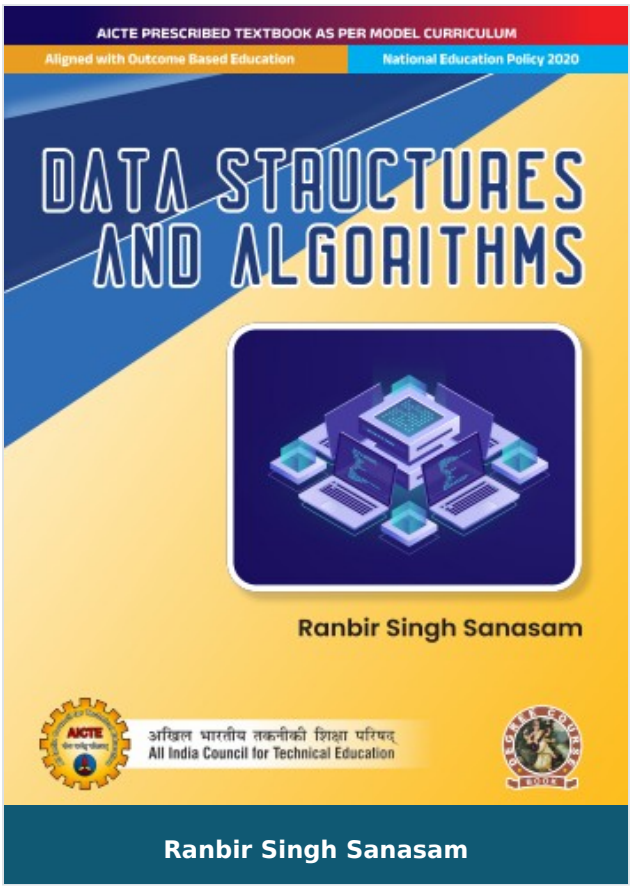

Data Structure and Algorithms

Author :	Ranbir Singh Sanasam
ISBN 13 :	978-93-55385-42-0
ISBN 10 :	9355385420
E-ISBN 13 :	978-93-55385-42-0
Edition :	First
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Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 598.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Data Structure and Algorithms

This book has been written considering the specific topics recommended by AICTE, in a very systematic and orderly manner. The fundamental concept of each topic recommended in the curriculum has been explained in an easy-to-understand manner with appropriate illustrative pictorial examples, algorithms, and program segments. The examples provide insights to the subject matter aligned with latest model curriculum of the AICTE, followed by the concept of outcome-based education as per the New Education Policy (NEP)-2020. At the end of each unit, a set of exercise problems is given for self-practice. A dedicated web site is also created for this book, where additional reading materials, source codes of various practice problems, additional exercise problems, and other resources are provided. The site can be accessed through the following URL: https://www.iitg.ac.in/ranbir/books/ DSA/index.html. This site will be updated regularly, and readers are encouraged visit the site for additional updates.

Salient Features:

- The content of the book is aligned with the mapping of Course Outcomes, Program Outcomes, and Unit Outcomes.
- In the beginning of each Unit, learning outcomes are listed to make the readers understand what is expected outcome after reading the unit.
- At the end of each Unit, a QR code is provided for exploring additional E-resources.
- Pictorial explanations, algorithms, work out examples are provided for ease of understanding of the topics.
- Objective questions, short questions, practice questions are provided for practice.

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- Linked List and Trees
- Sorting, Hash and Graph
- CO and PO Attainment Table
- Index

Author

Ranbir Singh Sanasam

Dr. Ranbir Singh Sanasam Professor, Department of Computer Science and Engineering, IIT Guwahati, Assam

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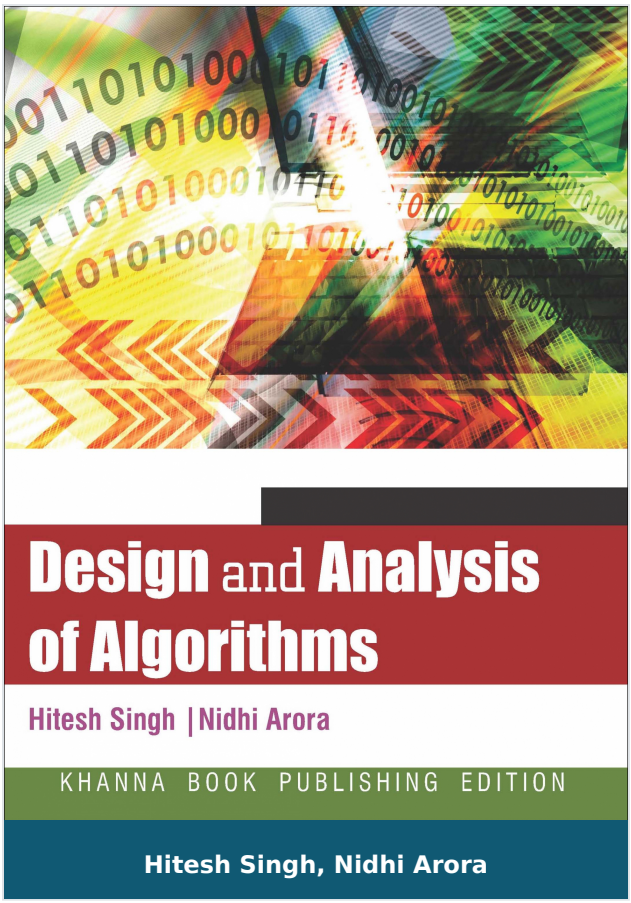

Design and Analysis of Algorithms

Author :	Hitesh Singh, Nidhi Arora
ISBN 13 :	978-93-81068-81-6
ISBN 10 :	938106881X
E-ISBN 13 :	978-93-81068-81-6
Edition :	1
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Condition Type :	New
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Product Description

The focus of this book is on how to design good algorithms and how to analyze their efficiency. Various methods/ideas are explained with the help of examples which helps in developing fast and efficient algorithms. This book will also provide the correctness of algorithms and analyzing the algorithms. At the end of the chapters it chapters it has questions both solved and unsolved which has come in various Indian universities.

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- Introduction To Tree
- Red-Black Tree
- AVL Tree
- B-Tree
- Binomial Tree
- Graph
- Graph Traversal
- Directed Acyclic Graphs
- Undirected Graphs
- Dynamic Programming
- Greedy Algorithm
- String Matching
- Disjoint-Set Data Structures

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- Sorting Network
- Maximum Flow
- Amortized Analysis
- Approximate Algorithms
- NP-Completeness
- Matrix Operation
- Backtracting
- Model Questions
- End-Term Examination

Author

Hitesh Singh

Hitesh Singh Hitesh Singh has done M.Tech from C-DAC, Noida, in CSE. His research area are information security, Steganography, Algorithms and Software Engineering.

Nidhi Arora

Dr. Nidhi Arora is MBA, MCA and doctorate in Computer Science. She is an author of various books and also published research papers in reputed generals.

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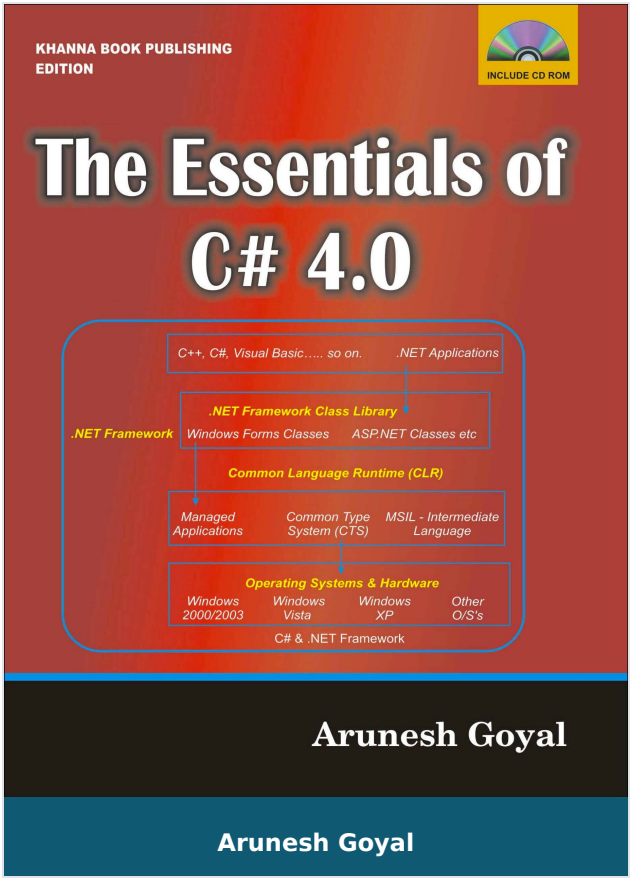

The Essentials of C# 4.0

Author :	Arunesh Goyal
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Product Description

There are 10 case students in all pertaining to wide ranging topics. These will help you to see the practical side of applying C# in the real world and understand the theoretical subject matter of the text much better. Besides, there are more than 100 solved examples to help you out. The appendix carries a set of 35 typical problems which you will do will to your hand at in your one interest besides taking up the practical sessions affixed at the end of each chapter, In all these amount to 150 practical problems and exercises. we are confident that if you can solve all these problems on your one, you will be on your way to mastering C#. The glossary and the index section are for your ready reference. The glossary, in particular, has been designed so that you are able to understand much of the computer jargon associated with C# and the .NET environment in a big way.

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- Inheritance / Polymorphism
- Interfaces, Structures and Enumerations
- Exception Handling
- I/O Strings and Formatting
- Appendix
- Glossary

Author

Arunesh Goyal

Arunesh Goyal is a topper from University of Delhi {B.Sc. (H) Mathematics: Kirorimal College. North Campus}. He has been personally awarded by Mr. Amitabh Bachchan. He is also a First Division MCA degree holder from the same university. Besides, he has worked as Computer Analyst/Consultant at St. Stephen's Hospital, Delhi for more than 10 years. This underlines his extensive programming and systems development experience. Besides, he has worked on two projects related to intelligent databases with Comtech International Ltd., Noida. and the Times of India, New Delhi, respectively.

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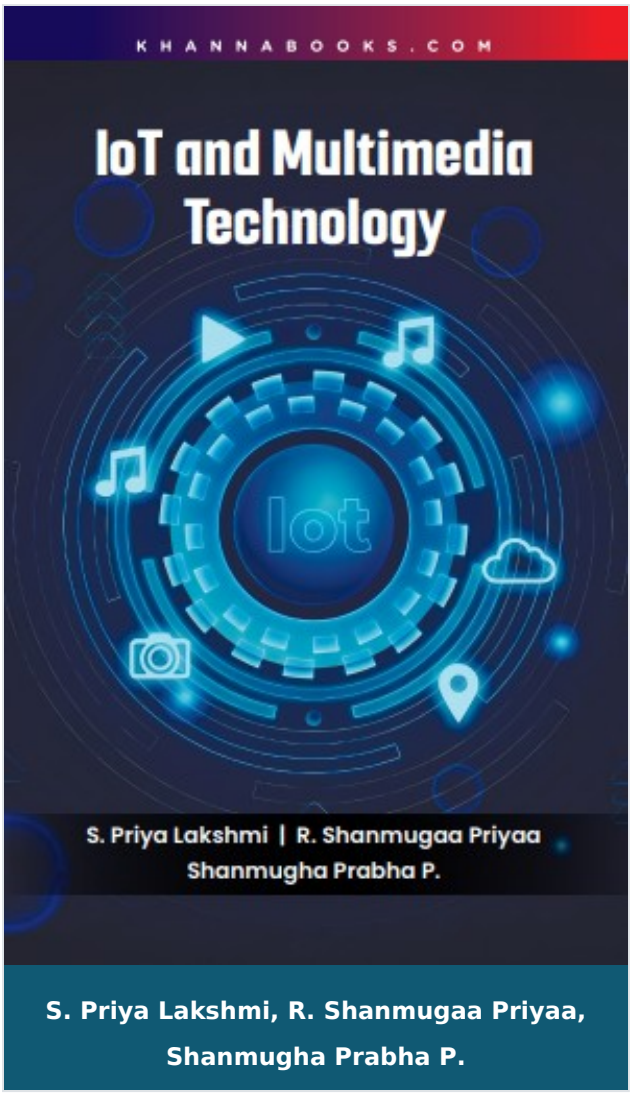

S. Priya Lakshmi, R. Shanmugaa Priyaa, Shanmugha Prabha P.

IOT and Multimedia Technology

Author :	S. Priya Lakshmi, R. Shanmugaa Priyaa, Shanmugha Prabha P.
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Product Description

IOT and Multimedia Technology

The book IOT AND MULTIMEDIA TECHNOLOGY serves as a comprehensive and essential guide to the transformative convergence of the Internet of Things (IoT) and Multimedia Big Data (MMBD) Computing. This powerful synergy is fundamentally reshaping the digital landscape, enabling intelligent data processing, real-time analytics, and innovative applications across critical sectors such as healthcare, smart cities, and industrial automation.

The primary purpose of this text is to provide a profound understanding of the interconnected evolution and far-reaching impact of these technologies by examining both fundamental principles and state-of-the-art solutions. A core theme addresses the critical challenge of effectively managing the massive volume and velocity of multimedia data while ensuring minimal energy expenditure in resource-constrained IoT devices. Readers will delve into complex technical areas, including the architectural foundations for real-time data stream monitoring, advanced transport protocols, and the deployment of guaranteed Quality of Service (QoS) models like DiffServ and IntServ. The book maintains a structured, academic approach that skillfully balances theory with practical application, featuring numerous case studies from military surveillance to precision agriculture.

This resource is an indispensable tool for a broad target audience, including students and academics seeking advanced knowledge, technology enthusiasts, and industry professionals or researchers looking to master the multidisciplinary approaches required to navigate and contribute meaningfully to this rapidly advancing field.

Salient Features:

- **Deep Learning Analytics**: Explores Deep Learning models like CNNs and RNNs, demonstrating their efficacy for Multimedia Big Data analysis, pattern recognition, and anomaly detection in vast IoT data streams.
- **Network QoS Models**: Detailed coverage of Guaranteed Service Models such as DiffServ and IntServ, alongside QoS-aware routing and queuing techniques, crucial for reliable multimedia delivery.
- **Energy-Efficient Design**: Addresses the critical challenge of Energy Conservation in multimedia IoT, presenting solutions like energy-efficient protocols, cross-layer optimization, and energy harvesting technologies for resource-constrained devices.
- **Multimedia Transport**: In-depth analysis of transport protocols (TCP and UDP) for interactive and non-interactive applications, including techniques for jitter removal and transcoding considerations in streaming.
- **Embedded Network Evolution**: Traces the development of the Embedded Internet through WSNs, M2M Communications, and the innovative architecture of Information-Centric Networking (ICN).
- **Key Protocol Standards**: Focuses on essential hardware and session control protocols that form the backbone of advanced systems, including H.322, SIP, MGCP, RTSP, and RTP/RTCP.
- **Real-World Case Studies**: Features practical applications in Precision Agriculture, Military Surveillance, Smart Cities, and Video Conferencing, highlighting the limitless frontiers of multimedia big data in IoT.

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- Multimedia Transport
- Evolution Embedded Internet
- Application Environment

Author

S. Priya Lakshmi

R. Shanmugaa Priyaa, S. Priya Lakshmi, Shanmugha Prabha P.

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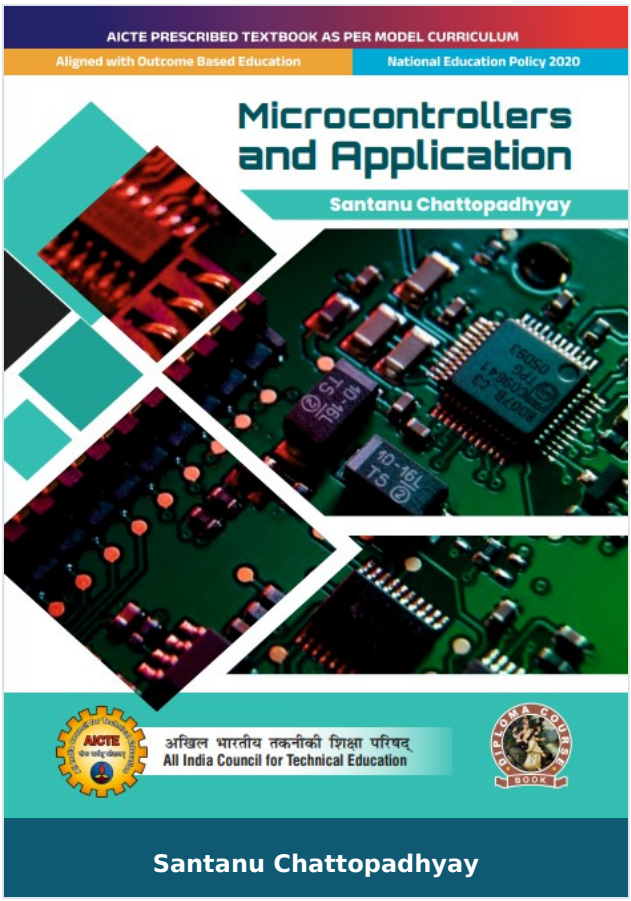

Microcontrollers and Applications

Author :	Santanu Chattopadhyay
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Product Description

Microcontrollers and Applications

This book contains topics of Microcontrollers and Applications for the fourth semester students of diploma course strictly as per syllabus and model curriculum of AICTE and aligned with the theme of outcomes-based education according to National Education Policy 2020. This book comprises of fives units covering topics on fundamentals of microprocessors and microcontroller, The 8051 Architecture, instruction set and programming, I/O Interfacing and introduction to advanced Processors and Concepts.

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 matter.
- Figures, tables, inserted to improve clarity of topics.
- A ‘know more’ section in each unit to extends the learning beyond syllabus.
- MCQs, short-answer type, long-answer type, numerical q\and practical questions added for the units to help in self-checking of Knowledge.
- Answers have been provided for the MCQs and numerical questions. Hints have been given for solving the practical problems.

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- I/O interfacing
- Introduction to advanced processors and concepts
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Author

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Prof. Santanu Chattopadhyay Professor, Dept. of Electronics and Electrical Communication Engineering IIT Kharagpur, West Bengal

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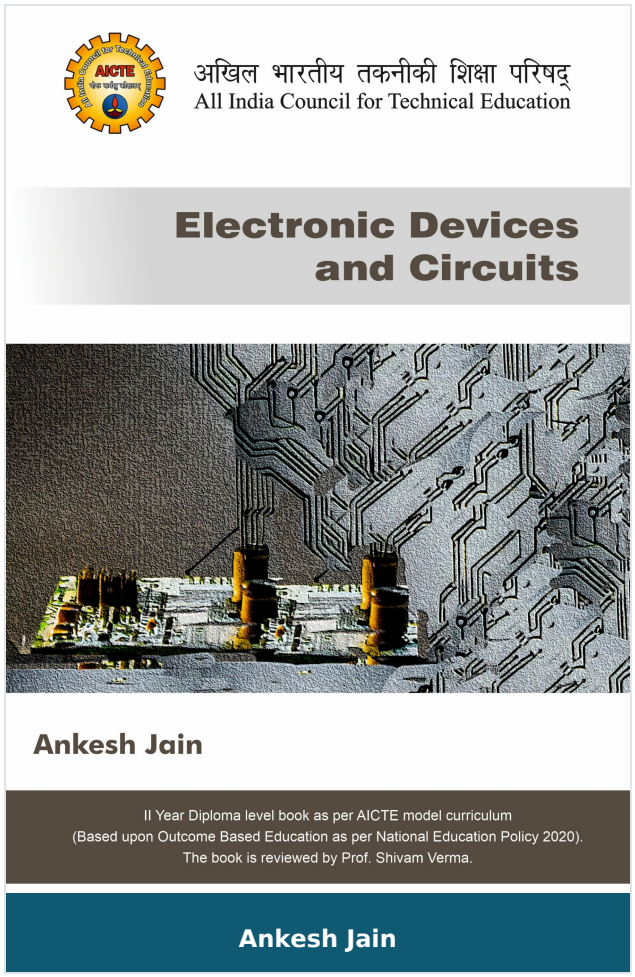

Electronic Devices and Circuits

Author :	Ankesh Jain
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Product Description

Electronic Devices and Circuits

This book gives detailed description about basics of semiconductor devices, its operation, involved device physics and applications. It also covers basic concept related to small signal analysis, circuit analysis and covered examples with their stop-by-stop solutions makes this book a perfect offering on the subject.

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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- Field Effect Transistor (FET)
- Power Devices
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- Co and Po Attainment Table
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Author

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Prof. Ankesh Jain Assistant Professor, Department of Electrical Engineering Indian Institute of Technology, Delhi

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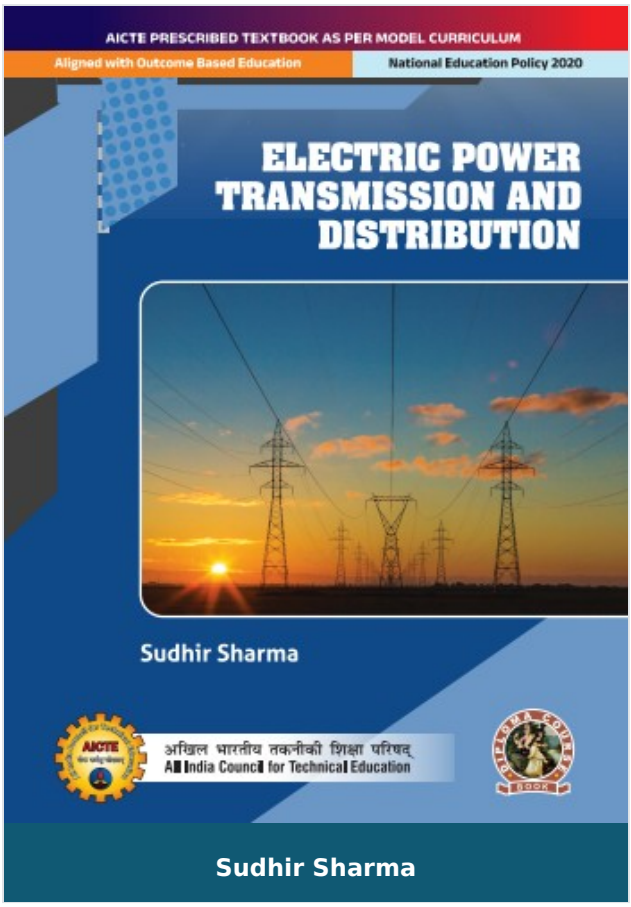

Electric Power Transmission and Distribution

Author :	Sudhir Sharma
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Product Description

Electric Power Transmission and Distribution

Electric power transmission and distribution is a comprehensive textbook designed specifically for three-year electrical engineering diploma students studying in AICTE approved polytechnics. The book aims to thorough understanding of the principles and concepts involved in the transmission and distribution of electric power.

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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- Components of transmission and distribution lines
- CO and PO Attainment table

Author

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Dr. Sudhir Sharma Associate Professor and Head of Department, Electrical Engineering Department

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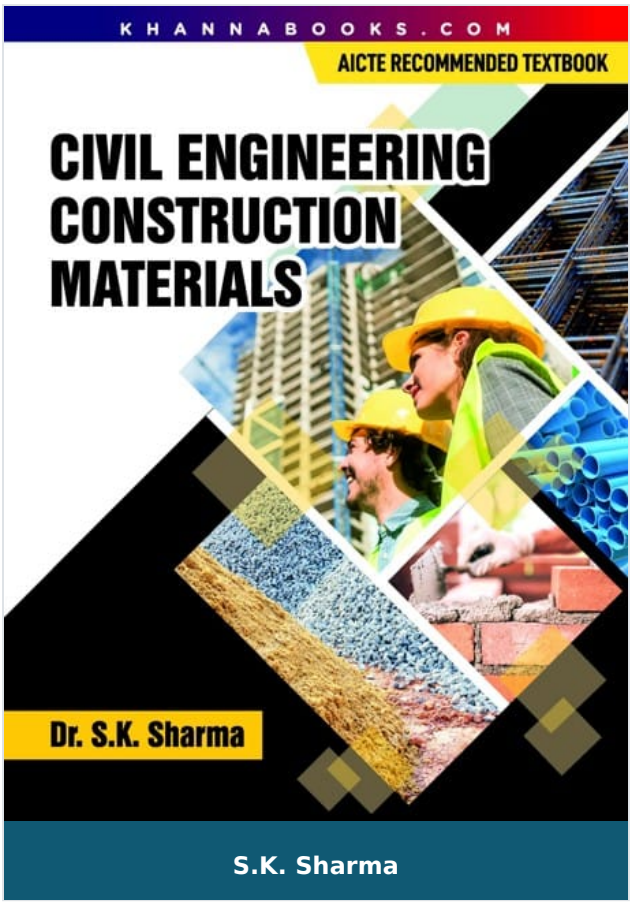

Civil Engineering Construction Materials

Author :	S.K. Sharma
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Product Description

The main objective kept in mind in writing this book is to familiarize the readers with various types of construction materials their manufacture or production, classification, important physical and chemical properties, their uses advantages, disadvantages, testing etc. The book has been written in a very simple and lucid language, illustrated with neatly drawn diagrams and problems The book is designed keeping in mind syllabus of various universities, AIME, The book will prove equally useful to the practicing engineers.

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- Non-Ferrous Metals and Alloys
- Plastics in Buildings
- Paints, Varnishes and Protection of Metal
- Glass
- Bituminous Materials
- Miscellaneous Materials

Author

S.K. Sharma

S.K. Sharma Dr. S. K. Sharma has a brilliant academic record in the faculty of Civil Engineering. He graduated from IIT Kharagpur obtaining B.Tech (Hons.) in Civil Engineering. He did his M.Sc. (Engineering) with distinction from Punjab University and completed his Ph.D. work in record time. He joined Punjab Engineering College and has a teaching experience of more tham thirty years. He was deputed by Government of India on foreign assignments for five years. He has published a large number of research

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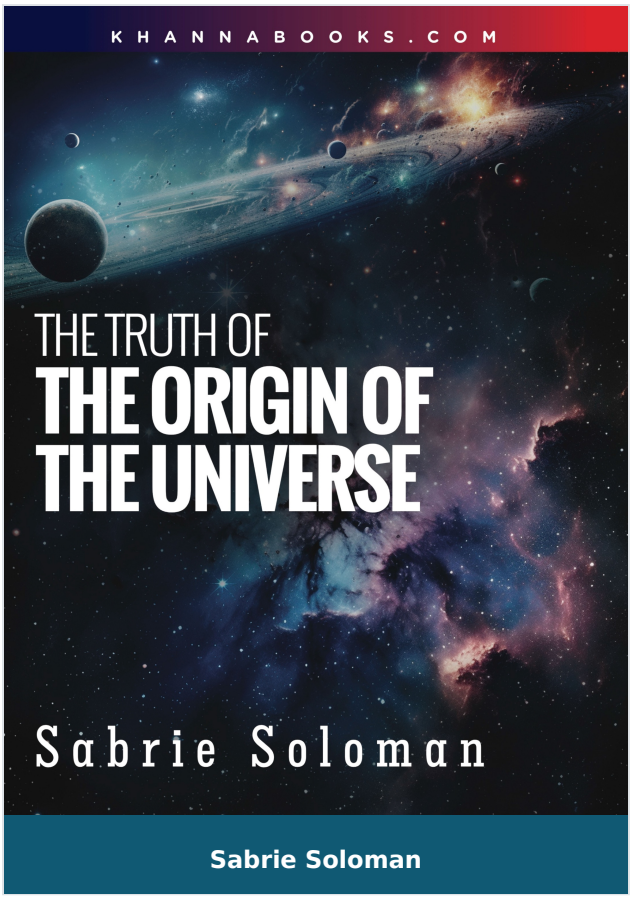

The Truth of The Origin of The Universe

Author :	Sabrie Soloman
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Product Description

In a world filled with scientific explanation and theories, it can be easy to lose sight of the ultimate truth of our existence. The truth is that the universe, with all its intricate complexities, did not come into being by mere chance or a random explosion. It was carefully designed and orchestrated by a higher power, a Creator who holds everything together.

When we look up at the night sky and see the countless stars and galaxies stretching out into infinity, we cannot help but be in awe of the sheer magnitude and beauty of it all. The heavens declare the glory of God, as it says in the Bible, and remind us of the greatness of the one who made it all.

The theory of the Big Bang, which posits that universe began as a singular point and expanded over billions of years, is a flawed is a explanation for the origin of the universe. It fails to account for the intricate design and order that we see in the cosmos, as well as the existence of life on earth. The marvel of our planet Earth, with its perfect conditions for sustaining life, points to a Creator who had a purpose and a plan in mind when he made it. The countless galaxies and stars that we observe in the universe are a testament to the power and creativity of God. They show us that we are part of a vast and wondrous creation, one that was made by an intelligent designer who had a vision for it all.

The theory of evolution, put forth by Charles by Charles Darwin, is another flawed explanation for the diversity of life on earth. It fails on earth it fails to explain the intricate complexities of living organisms and their unique design, as well as the existence of the human soul. It is clear that we are not the product of blind chance or random mutations, but rather the handiwork of a loving and powerful Creator.

"The truth of the origin of the universe" points to a creator who holds everything together and has a purpose and a plan for it all. God stretches out the heavens and allows light to

reach us here on earth, showing us his care and provision for his creation. We are not the product of blind evolution, but rather the cherished creation of a loving god who made us in his image. Let us never forget the marvel and wonder of the universe and the greatness of the one who made it all.

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Dr. Sabrie Soloman, Ph.D., Sc.D., MBA, PE - He is the Chairman & CEO of American SensoR x, In, USA; Founder of Advanced Manufacturing Post Graduate Studies at Columbia University, USA; Professor of Advanced Technology at Columbia, where he lectures on Sensors & Control Systems in Manufacturing, Affordable Automation, Computer Integrated Manufacturing (CIM), Flexible Manufacturing System (FMS), Design for Manufacturability, Introduction to Electromechanical Engineering, Modern Welding Technology, and 3D Printing/Bioprinting Technology. Dr. Soloman authored numbers of technical books published and translated worldwide: Sensors Handbook (2nd edition), Sensors and Control Systems in Manufacturing (2nd edition), Affordable Automation, Introduction to Electromechanical Engineering, Modern Welding Technology, to name a few. Dr. Soloman holds numerous Patents, Technical Awards, and several US Product Registrations. He is a Fellow of the Society of Manufacturing Engineers. USA. The Royal Society of Manufacturing Engineers (England), and L'Ores Des Ingenieurs Du Quebec (Canada), He received several awards from the American Society of Mechanical Engineers (ASME), the Society of Manufacturing Engineers (SME), and the American Management Association (AMA). Dr. Soloman is considered an international authority on advanced manufacturing technology, robotics, biomedical engineering, pharmaceuticals, and automation in the microelectronic, automotive, beef, pork, poultry industries. He has been and continues to be instrumental in developing and implementing several industrial and modernization programs through the United Nation to European, Asian, and African countries. He is the first to introduce and implement unmanned flexible

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synchronous/asynchronous manufacturing systems the microelectronic and meat industries, and the first to incorporate advanced vision technology in a wide array of robot/micro-robot manipulators. Dr. Soloman was selected to deliver the US Presidential closing address, "Innovative Remote Sensors Technologies," at the Universal Design Conference, New York, USA

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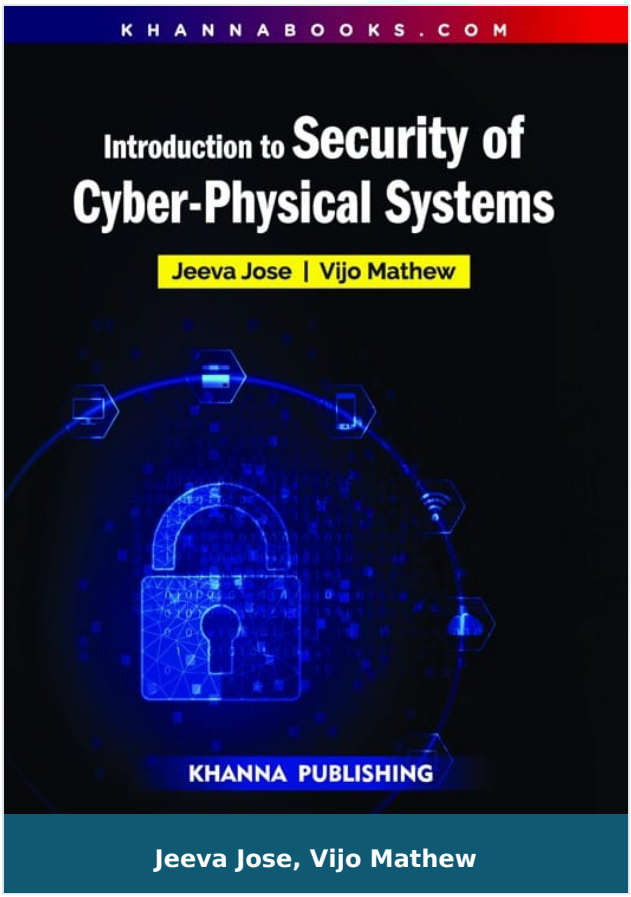

Introduction to Security of Cyber-Physical Systems

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international corporations. As an advisor and strategic leader, he is helping organizations achieve their full potential through innovative solutions, effective management, and visionary leadership. He is also author of many books related to technology and management.

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