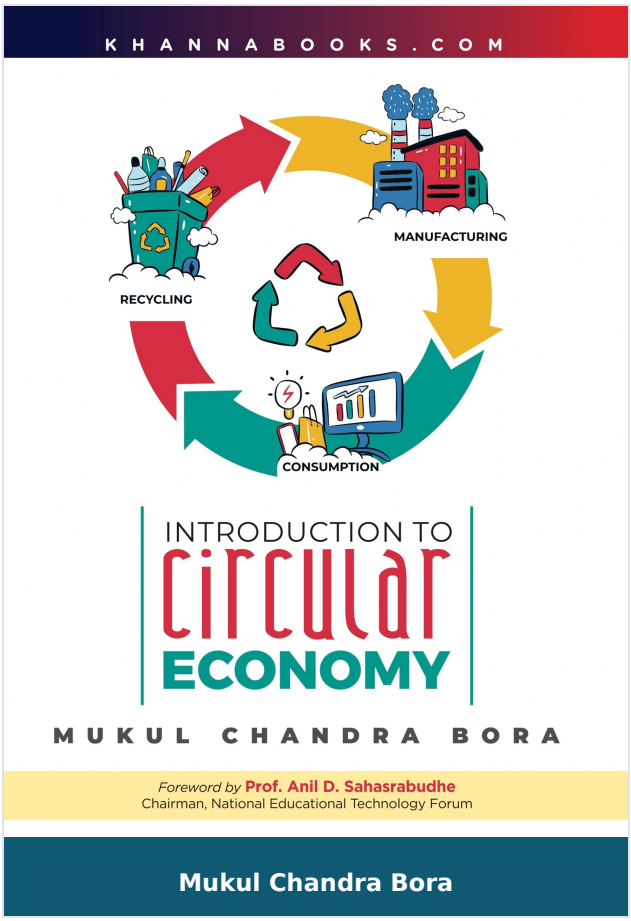

Introduction to Circular Economy

Author :	Mukul Chandra Bora
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Product Description

The concept of a Circular Economy has emerged as a transformative framework for addressing the environmental, economic, and social challenges of the 21st century. As the global population continues to grow and natural resources become increasingly scarce, the limitations of the traditional linear economy — characterized by a "take, make, dispose" model — have become evident. The linear approach has not only strained ecological systems but also led to significant economic inefficiencies and social inequalities. In response to these challenges, the circular economy presents a regenerative and restorative model designed to minimize waste, optimize resource use, and create sustainable economic opportunities.

The Bharatiya Gyana Parampara i.e., Indian Knowledge System as it commonly known to all of us now is also briefly described in this book as the concept of a circular economy was inherently practiced in ancient India, deeply rooted in the principles of sustainability, resource efficiency, and minimal waste generation. Traditional Indian society emphasized harmony with nature through practices such as reuse, recycling, and repurposing of materials. Agricultural systems followed natural cycles, using organic compost and crop rotation to maintain soil fertility. Handicrafts and textiles were produced using renewable resources like cotton, wool, and natural dyes, with worn-out materials often repurposed into quilts, ropes, or cleaning cloths. Metal and wooden tools were repaired or melted down for reuse, reflecting a resource-conserving mindset. Water harvesting systems, such as stepwells and reservoirs, ensured sustainable water management. The philosophical and spiritual underpinnings of Indian culture, including concepts from Vedic and Buddhist traditions, advocated for minimalism and mindful consumption, discouraging excess and waste. This self-sufficient and regenerative approach to production and consumption closely aligns with modern circular economy principles, highlighting the relevance of ancient Indian wisdom in addressing contemporary

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sustainability challenges.

This book, Introduction to Circular Economy, aims to provide a comprehensive foundation for understanding the principles, strategies, and practical applications of the circular economy. It explores how circular thinking can reshape industries, redefine business models, and drive innovation in the face of growing environmental and economic pressures. The circular economy encourages a shift from the consumption of finite resources to the use of renewable inputs, the extension of product life cycles through repair and remanufacturing, and the recovery of materials at the end of their useful life.

This book also provides a brief outline about the Economic theories and its evolution in the first chapter which is of great need to understand the importance of Circular Economy in present day context. This review of economic theories provides valuable insights into the foundation and evolution of the circular economy. Classical and neoclassical theories, pioneered by Adam Smith and Alfred Marshall, emphasized market efficiency, resource allocation, and profit maximization, but largely overlooked environmental constraints and waste generation. Keynesian economics highlighted the role of government intervention and public investment, which is crucial for supporting circular initiatives through infrastructure and policy measures. Institutional economics underscores the importance of regulatory frameworks, incentives, and market structures in enabling circular business models. Evolutionary and innovation economics highlight the role of technological advancements and business model disruptions in driving circular practices such as recycling, remanufacturing, and product lifecycle extension. Behavioural economics further informs how consumer preferences and social norms can influence the adoption of circular products and services. Thus, the circular economy integrates insights from multiple economic theories to create a sustainable framework that balances economic growth with environmental and social well-being.

Throughout this book, we will examine the theoretical underpinnings of the circular economy, tracing its evolution from early environmentalist movements to its current

status as a key driver of sustainable development. We will analyze real-world examples from various sectors — including manufacturing, construction, fashion, and electronics — to illustrate how businesses and governments are adopting circular strategies to reduce waste and create value. Additionally, we will explore the policy landscape, highlighting global initiatives and regulatory frameworks that are supporting the transition to a circular economy.

The role of Life Cycle Analysis in Circular Economy is also discussed due to its inherent role in implementation of circular economic model in real life applications as Life Cycle Analysis (LCA) plays a crucial role in the circular economy by providing a systematic method to assess the environmental impact of a product, process, or service throughout its entire life cycle. LCA evaluates all stages, including raw material extraction, manufacturing, distribution, use, and end-of-life disposal or recycling. In the context of a circular economy, LCA helps identify opportunities to reduce waste, improve resource efficiency, and extend product lifespans by highlighting the environmental costs and benefits of different production and consumption models. By measuring energy consumption, emissions, and material use at each stage, LCA enables businesses and policymakers to make informed decisions that support recycling, remanufacturing, and sustainable design. This ensures that economic activities are aligned with environmental sustainability, minimizing resource depletion and waste generation while promoting a closed-loop system.

A key focus of this work is to present the circular economy not merely as an environmental necessity but as a significant economic and strategic opportunity. By adopting circular principles, businesses can reduce costs, improve supply chain resilience, and unlock new markets. Moreover, the circular economy offers a pathway to greater social equity by promoting resource efficiency, reducing environmental degradation, and fostering inclusive economic growth.

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This book is intended for a broad audience, including business leaders, policymakers, researchers, and students. It provides both a conceptual understanding and a practical roadmap for implementing circular strategies at different scales — from individual businesses to global value chains. Each chapter includes case studies, key insights, and discussion questions to encourage deeper engagement with the material.

The transition to a circular economy represents one of the most promising avenues for achieving sustainable development in the 21st century. By closing the loop on resource use and fostering innovation in product design, supply chain management, and waste recovery, the circular economy holds the potential to create a more resilient, inclusive, and environmentally sustainable global economy. It is my hope that this book will inspire readers to rethink existing models of production and consumption and embrace the opportunities offered by circularity.

I am grateful to the reviewer Dr Rupsikha Sharma, Tampines, Singapore and other researchers, practitioners, and thought leaders whose work has been informed the insights presented in this book and are duly credited in the references. I would also like to thank my colleagues and family for their invaluable support throughout the writing process. May this work serve as a guiding resource for all those committed to building a more sustainable and prosperous future.

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- Business Model and Case Studies in Circular Economy
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Author

Mukul Chandra Bora

Dr. Mukul Chandra Bora has an extensive academic background in civil engineering, reflecting his commitment to scholarly excellence. He earned a Ph.D. in Civil Engineering from the Indian Institute of Technology (TIT) Guwahati in 2011, following an M. Tech in Geotechnical Engineering from IIT Kharagpur in 2000. His journey in the field began with aB.E.in Civil Engineering from Dibrugarh University in 1988. With decades of professional experience, Dr. Bora has held key academic and administrative roles. Since August 2012, he has been the Director of the Institute of Engineering & Technology, Dibrugarh University. Previously, he served as State Project Administrator for the Northeast State Project Implementation Unit (2017-2021) of TEQIP - III project of Ministry of Education, Government of India. His teaching career includes a tenure at Technical Education

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Department of Government of Assam together with professional experience as a Quantity Surveyor at PBS Limited, Guwahati (199l-1995) and a Site Engineer at M.L. Dalmiya & Co. Ltd., Kolkata (l989-1991). Dr. Bora's research and consultancy work focus on ground improvement techniques, geosynthetics, rainfall impact on groundwater, non-biodegradable waste in construction, and slope stabilization. He has contributed significantly to materials characterization and geotechnical investigations for major infrastructure projects, including power plants and industrial facilities. He is at fellow of the Institution of Engineers (India), a Senior Member of the Asia Pacific Chemical, Biological and Environmental Engineering Society (Hong Kong), and a Member of the International Association for Life Cycle Civil Engineering (Italy). Additionally, he serves as a reviewer for reputed journals, including Springer's Journal of the Institution of Engineers (India), Series A. Beyond civil engineering, Dr. Bora has made remarkable contributions to the Bhartiya Knowledge System (BKS), which encompasses philosophy, science, mathematics, astronomy, Ayurveda, linguistics, and traditional Indian technologies. Rooted in ancient texts like the Vedas and Upanishads, BKS has profoundly influenced Indian civilization. Dr. Bora is dedicated to reviving and integrating traditional Indian knowledge with modern research and education, bridging the gap between ancient wisdom and contemporary advancements. His book, ''Foundations of Bhartiya Knowledge System" (2023), published by Khanna Publishing House, delves into the fundamental principles of India's knowledge systems, promoting their relevance in the modem era. Through his work, Dr. Bora continues to advance both civil engineering and India's intellectual heritage, fostering a deeper appreciation of Bhartiya wisdom among scholars and students.

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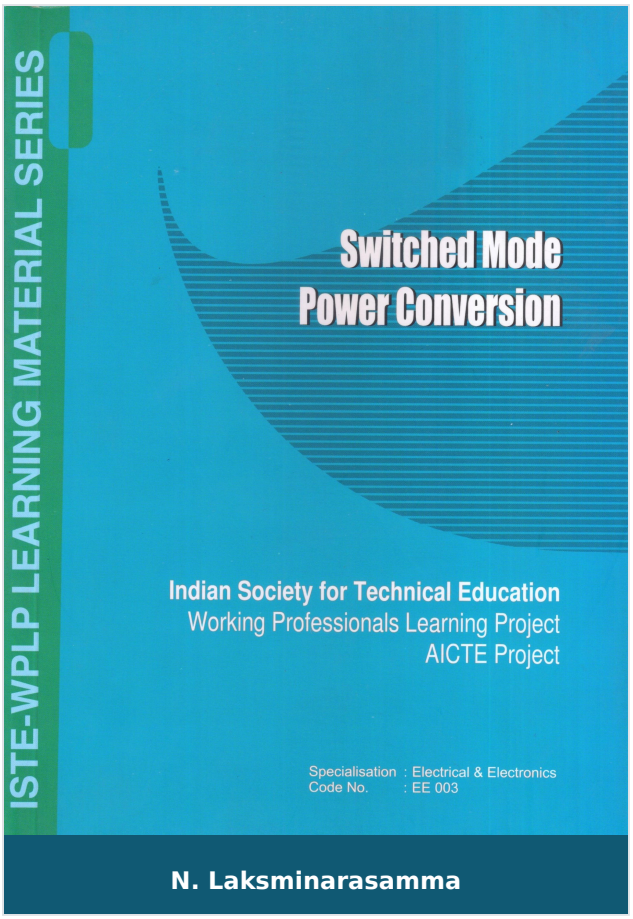

Switched Mode Power Conversion

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Product Description

The switched mode power conversion course is a design and application oriented subject with vast employment and career potential. Presently, the subject invariably has no laboratory component at all. When present, the laboratory session is a euphemism for a dry PC based entry and print out sessions linked to some branded circuit simulation software. However, the students rarely learn the skills of assembling circuits, testing & debugging the same and designing application circuits.

This learning module is intended to serve as a bridge course for fresh engineers who take up power engineering as their career. This will aid in filling the gap between the academics and the industry requirement. The material is designed to be schedules for five days. The study material gives an overview of switched mode power conversion with a design example organized in five Chapters as follows.

The concepts of power processing, a simple power processing system such as a power converter, elements available at the disposal of a power engineer in the design of efficient power converters are discussed in chapter 1. The study state analyses of the basic converter topologies are explained. The basic design of a power converter is explained in Chapter 2 by a spread sheet procedure. Simulation of the designed topology using circuit simulation software SEQUEL (Solver for Equation with User defined Elements) is discussed. The theoretical estimation of the efficiency of the designed power converter is discussed in Chapter 3. The effects of increase in the switching frequency on the losses incurred in the power converter are discussed with a design example.

The state of the art in the power converters are discussed in Chapter 4. The demand is forever moving towards high power densities for which higher switching frequencies becomes inevitable. The problems associated with higher switching frequency are discussed. The technology which provides a solution for high power density power converters such as soft switching are discussed. The concepts of soft switching with an

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example is explained. Chapter 5 gives an Introduction to construction projects of scaled down power level. These may be used as training kits along with this learning module to get an overview of switching converters.

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- Loss Analysis in DC DC Converters
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- Introduction to Construction Projects
- References

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Dr. N. Lakshminarasamma, Faculty, Dept. of Electrical Engineering, Indian Institute of technology, Madras, Chennai. Email: lakshmin@iitm.ac.in N. Lakshminarasamma received B.E. degree in Electrical Engineering in 1994, Master in power electronics in 1997 from Bangalore University, and Ph.D. degree from Indian Institute of Science, Bangalore, India in 2007. Currently she is faculty at Indian Institute of Technology Madras, Chennai. She has 4 years of academic experience in B.M.S. college of Engineering, Bangalore and Nitte Institute of Technology, Bangalore in the Dept. of Electrical Engineering; she has worked as a software engineer with 12 Technologies India Private Limited and as a Systems Engineer in GE Healthcare India Limited. She has coauthored four journal papers in peer-reviewed journals, including the IEEE Transactions on Power Electronics and several premier conferences. Her areas of interest are power electronics, switched mode power converters and resonant converters.

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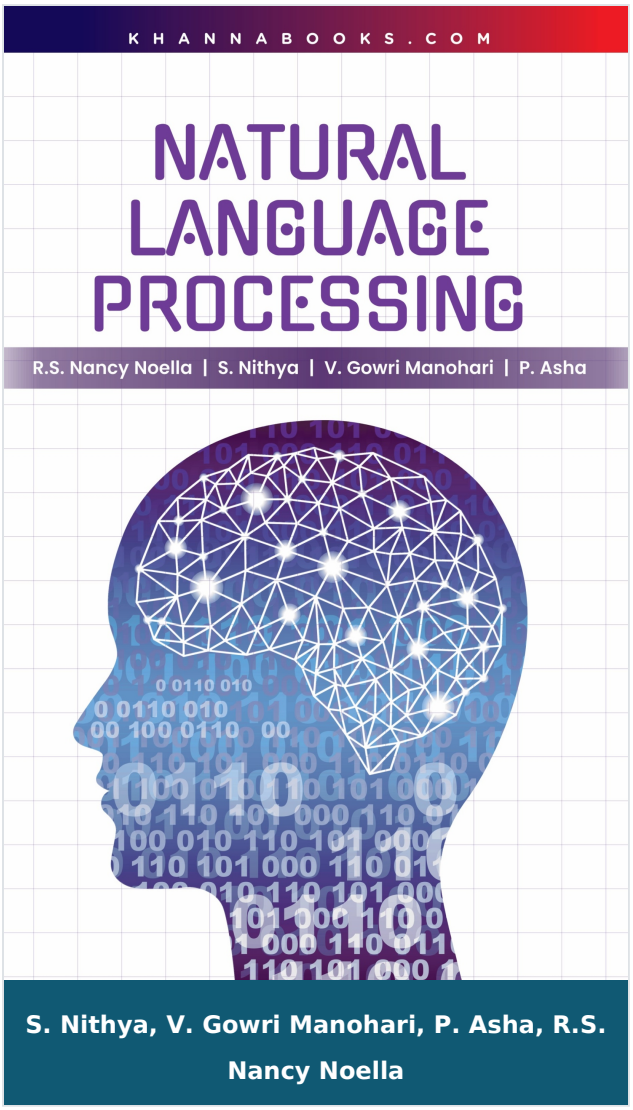

Natural Language Processing

Author :	S. Nithya, V. Gowri Manohari, P. Asha, R.S. Nancy Noella
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Product Description

This comprehensive text is an essential guide to the rapidly evolving field of Natural Language Processing (NLP), which sits at the dynamic intersection of linguistics, computer science, and artificial intelligence. The core theme is mastering the ability for computers to understand, interpret, and generate human language, a capability that powers modern AI applications from virtual assistants and machine translation to sentiment analysis and chatbots.

Designed to be a balanced and holistic resource, the book successfully bridges the critical gap between theoretical foundations and practical implementation. It systematically covers fundamental concepts like text preprocessing, tokenization, and language modeling, ensuring readers build a strong conceptual base. The practical value lies in its commitment to demystifying complex concepts, providing readers with the necessary tools to build, optimize, and deploy robust NLP systems effectively.

The text offers in-depth coverage of state-of-the-art architectures like transformers, BERT, and GPT, complemented by practical, hands-on examples using industry-standard frameworks such as PyTorch, TensorFlow, and Hugging Face. Furthermore, it extensively covers the entire phases of NLP—from lexical and syntactic processing to semantic interpretation and discourse analysis—ensuring a thorough understanding of the whole pipeline. The primary audience for this text is students seeking foundational knowledge, researchers looking to refine their expertise, and practitioners aiming to implement real-world NLP solutions. It is an indispensable resource for anyone dedicated to exploring and innovating in this exciting and interdisciplinary domain.

Salient Features:

• Foundational Concepts: Provides clear explanations of core NLP techniques, including tokenization, embedding, and language modeling, covering the phases of NLP from

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lexical to pragmatic analysis.

• State-of-the-Art Models: Includes in-depth coverage of current advancements, exploring transformer architectures, BERT, GPT, and other cutting-edge, highly efficient models for language tasks.

• Hands-on Implementation: Offers practical, hands-on examples using popular industry frameworks such as PyTorch, TensorFlow, and the Hugging Face library for real-world development.

• Syntactic-Semantic Pipeline: Explores the key NLP phases of syntactic parsing and semantic interpretation, including grammar, ambiguity resolution, and the use of Logical Forms.

• Context and Discourse: Dedicated coverage of World Knowledge and Discourse Structure, including knowledge representation techniques and the analysis of coherence and reference resolution.

• Real-World Applications: Features case studies and projects demonstrating the practical deployment of NLP in industry, covering applications like machine translation and sentiment analysis.

• Parsing & Grammar: Delves into advanced parsing techniques, including Probabilistic Parsing, Feature Structures, Augmented Grammars, and the Symbolic Approach to computation.

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- Natural Language Discourse Structure

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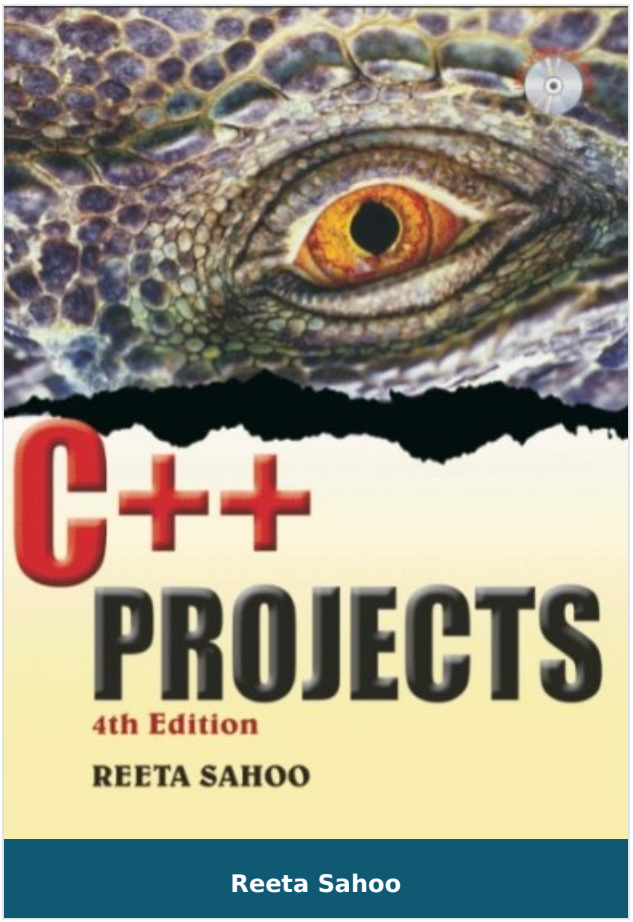

Reeta Sahoo

C++ Projects

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Product Description

There are 14 different project are given in the CD. All project are graded in different manner including different C++ functions and graphic commands. Those who have basic understanding about C++ can make easy use of this project book. While for graphics, you have to execute the program file from your graphics driver file (i.e., c:\TC or C\TURBO or and C++ installation directory). This will-organized and comprehensive project book offers a variety of C++ coding for high-end programmers, beginners and developers.

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- Clock-cum-Calendar
- Charts and Graphs
- Paint Brush
- DOS Utility
- Ludo-cum-Snakes and Ladder
- Bricks Game
- Chess Master.

Author

Reeta Sahoo

Reeta Sahoo is an author of various books including, C++, VB, Java. Since last 10 years, she has lots of experience in different computer project works. She has written number of schoolbooks including C++, Visual Basic, Java, etc. This book helps lots to the beginner's who want to develpo programming skill in C++ language.

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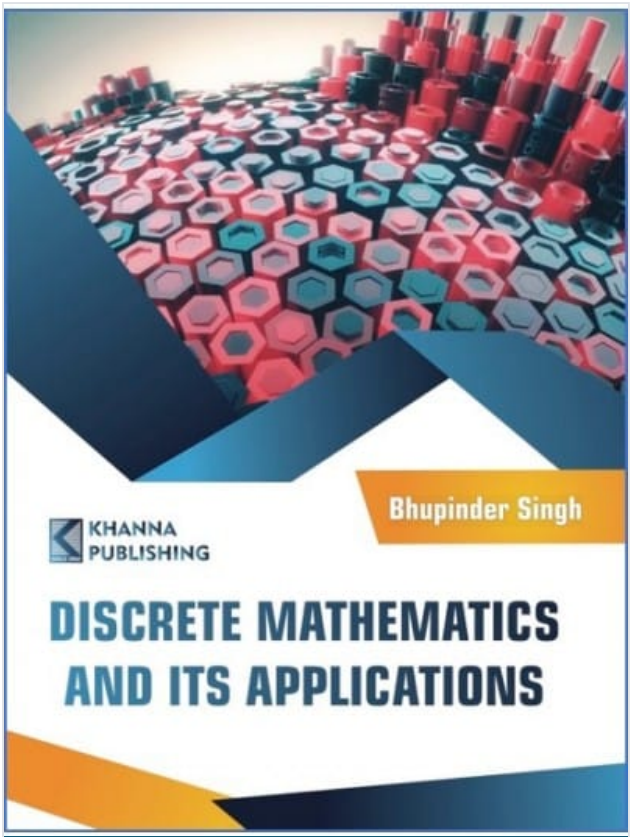

Bhupinder Singh

Discrete Mathematics and its Applications

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Product Description

The book is designed for a one semester course in discrete mathematics for B.E. (Computer Science and Engineering), B.E. (Information Technology), MCA and BCA students. It covers syllabus of the most Indian universities. Keeping this in mind the contents of the books are incorporated accordingly. The discipline of mathematics requires working of problems to enhance the understanding. Therefore, numbers problems are appended at the end of each chapter. Solutions are also provided to these problems. This has been divided into 15 chapters. In spite of my best care, it is possible that some errors, printing mistakes etc., might have crept in. I shall be thankful if the same is brought to my notice. Suggestions for further improvement of the book by readers will be highly appreciated.

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- Recurrence Relations
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Author

Bhupinder Singh

Bhupinder Singh Bhupindra Singh Namadhari, Senior Lecturer, Computer Science and Engineering, Punjab Engineering College, Chandigarh, got his B.sc. (Electronics & Communication). From B.I.T. Mesra, Ranchi and M.E. from Devi Ahialaya Vishwa Vidalaya, Indore. He joined as lecturer at corps of Singals, Minstry of Defence and worked from May, 1980 to Jan, 91. He joined as a lecturer at Punjab Engineering College, Chandigarh and selected to the post of Assistant Professor in Department of Computer Science &

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Engineering at R.E.C. Hamirpur. He was reverted back to Punjab Engineering College in Feb' 99. He is life member of the following societies: M.I.E.T.E, M.I.E., C.S.I, He was invited by Pacific Telecommunications Council-97 to act as a Chairperson in the field of Cyptography at Honululu, Hawaii. He has published more than 30 research papers in the field of Cryptography, Artificial Intelligence, Vedic Mathematics in National/Internal Journal/Conferences. His research work in the field of "Computer Implementation of Vedic Mathematics Sutra" has been considered equivalent to Ph.D. in engineering by Dr. A.K. Ramani of University Putra Malaysia (More than 100 research papers to his credit). and Dr. P.K. Chande, Director, SGSITS Indore (More than 100 research papers to his credit) Bhupindra Singh has authored nine books in the field of Digital Electronics, Microprocessor, Cobol Programming and Microcontrollers.

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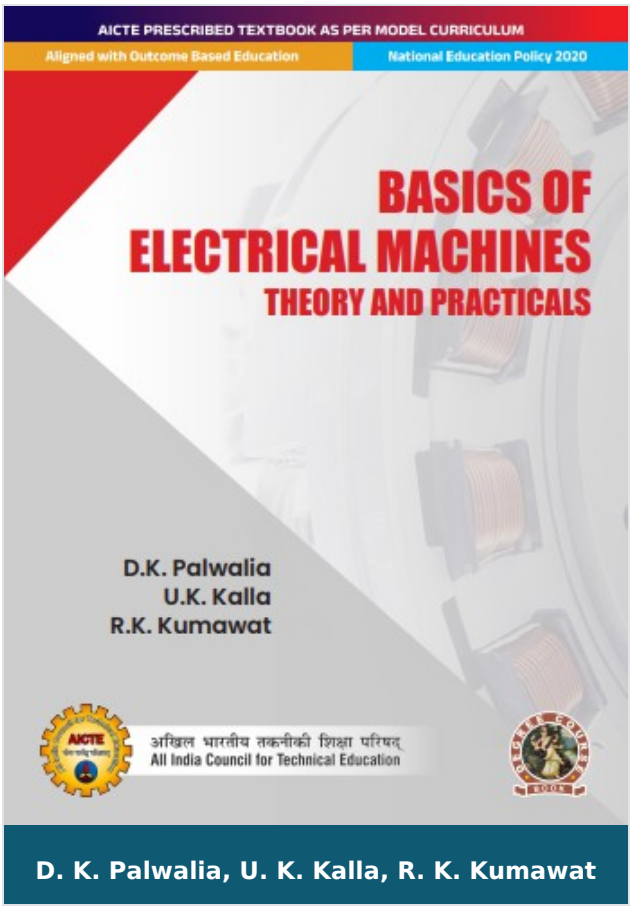

Basics of Electrical Machines: Theory and Practicals

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

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- 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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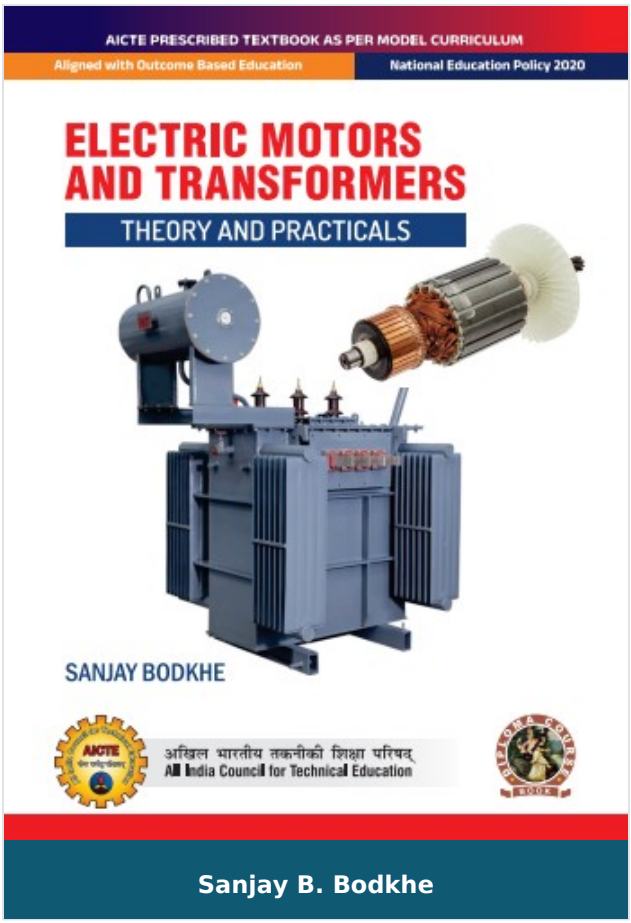

Electric Motors and Transformers (Theory and Practicals)

Author :	Sanjay B. Bodkhe
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Product Description

Electric Motors and Transformers (Theory and Practicals)

This book gives detailed information about the dc motors and the transformers that are considered as a workhorse of industry and heart of power system respectively. Although the modern industrial trend is to use ac motors and the electronically switched motors, the dc motors are still considered as a highly reliable and highly controllable alternative. Transformer is a device which finds an unavoidable application not only in transmission and distribution of ac power, but also in electronic and communication circuits. In this book, every concept is explained in the simplest possible way with maximum number innovative diagrams and examples. Wherever possible, photographs of real systems are provided. Laboratory experiments based on the theory are given at the end of every unit. Although this book is written for the students of diploma level program, it will prove to be useful to undergraduate engineering students as well. The content of this book is as per the syllabus of AICTE and is aligned with outcome-based education as per the National Education Policy (NEP)2020.

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, illustrations, exercise, experiments. Student centric subject materials included in book with balanced and chronological manner.
- Apart from essential information a ‘know more’ section is also provided in each unit to extend the learning beyond syllabus.

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- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems are provided in each unit.

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- Course Outcomes
- Guidelines for Teachers
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Author

Sanjay B. Bodkhe

Dr. Sanjay B. Bodkhe Professor in Electrical Engineering and Registrar, RAMDEOBABA UNIVERSITY

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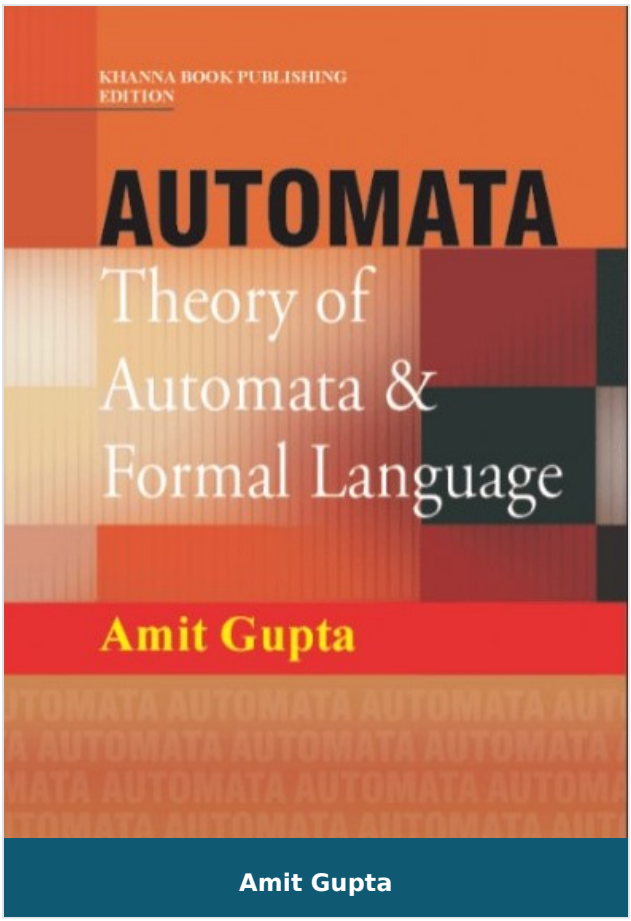

Amit Gupta

Theory of Automata and Formal Languages

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Product Description

Easy-to-read & write style. A step-by-step solution of DEA & NFA approach that is used in almost all DFA & NFA approach that is used in almost all DFA & NFA examples in chapter 03 (Finite State Machine). Every chapter is supported with multiple choice questions, theoretical questions and numerical for better practice. Due care in taken to balance the mix of notations and words in mathematical statements. The book is presented with an approach to explain the concepts in lucid style and comprehensible language. A large number of attractive and accurate figure and graphs have been drawn which enable students to grasp the subject in an easy way. Systematic and sequential arrangement of different topics. Rich pedagogy..

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- Mathematical Preliminaries
- Formal Languages
- Finite State Machine
- Regular Expressions and Regular Grammar
- Context-free Grammar
- Pushdown Automata
- Turing Machine
- Decidability and Indecisivensess (Undecidability)
- Theory of Recursive Function and Intractability
- Propositions and Predicates

Author

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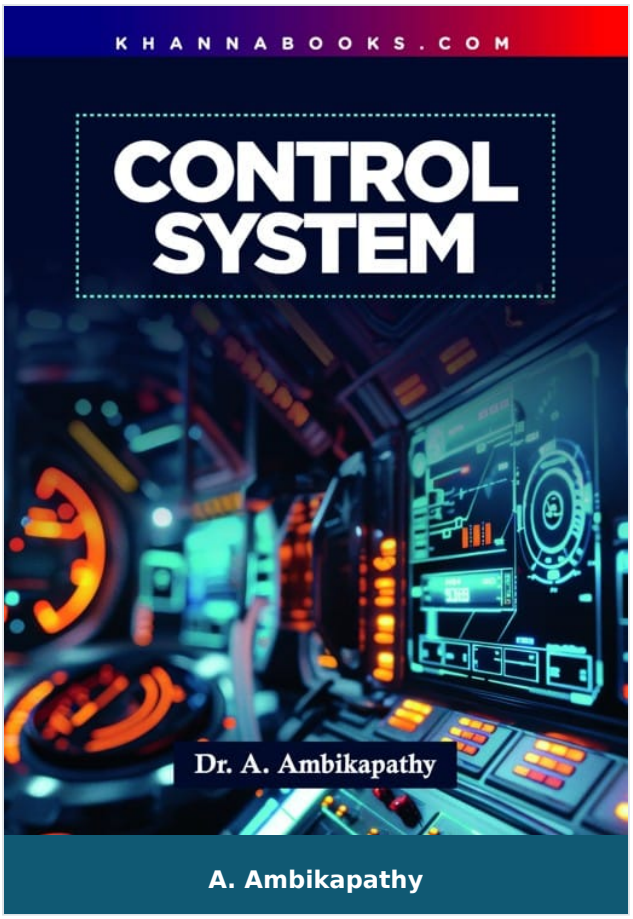

A. Ambikapathy

Control System

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Product Description

The textbook on Control System tells about the basic concepts of control system in a detailed manner. This book contains the brief explanation about block diagram reduction, signal flow graph and time domain analysis. The techniques which are used in control system such as root locus, bode plot and polar plots are explained in detail. designing procedures for the compensators (Lag, lead and lag lead) are given in easy manner and steady state space analysis also explained in a simple manner. The effort has been taken to explain all the concepts in a simple language to make the students to understand the concepts very easily.

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- Basics of Control System
- Time Domain Analysis
- Concept of Stability
- Correlation
- Compensators Design

Author

A. Ambikapathy

A. Ambikapathy currently working as an assistant professor in " Galgotia College of Engineering and Technology " holds M. Tech degree. She has presented five papers in national level conferences. She worked under three different universities and having ten years of teaching experience.

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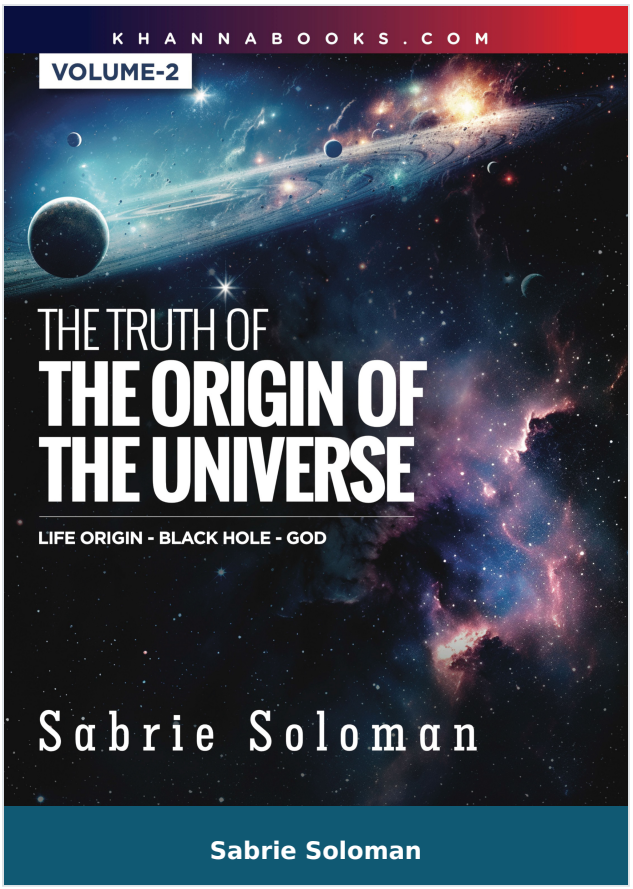

The Truth of The Origin of The Universe (Life Origin - Black Hole- God) Volume-2

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Product Description

The Origin of Life: God? - Black Hole? Or Evolution? The origins of life, the mysterious nature of black holes, and the idea of a higher power or God have long fascinated humans. The question of ho life originated on Earth has puzzled scientists for centuries. These topics have sparked numerous debates. Discussions, and theories among theologians, and philosophers alike. We attempt to unravel the mysteries of the universe. We will delve in to the creation, the scientific and the philosophical perspectives on the origins of life, the enigmatic nature of black holes, and the fact of the creator. While each of these subjects is distinct in their own right, there are interesting connections that can be draw among them. Black holes, on the other hand, are some of the most enigmatic objects in the universe. These dense regions of space time have such strong gravitational pulls that not even light can escape them. Scientists have long been intrigued by black holes and continue to study them to unlock their secrets. While black holes are thought to form from the collapse of massive stars, there is still much that remains unknown about these mysterious objects. The existence of God is a topic that has been debates for centuries. The questions of whether a higher power, or deity, exists has divided people for millennia. Some argue that the complexity and beauty of the universe point to an intelligent designer, while other believe that the laws of nature are sufficient to explain the workings of the cosmos. The existence of God is a deeply personal and philosophical questions that continues to captivate believers and skeptics alike.

Chapters Covered in This Book:

1. Intelligent Design in Everyday Reasoning.

2. The Blackhole.

3. The Universe is Finely Tuned for Life.

4. Molecular Intelligent Design.

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5. Our Milky way Galaxy.

6. Devine Design.

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- Molecular Intelligent Design
- The Blackhole
- Our Milky way Galaxy
- The Universe is Finely Tuned for Life
- Devine Design

Author

Sabrie Soloman

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

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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 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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