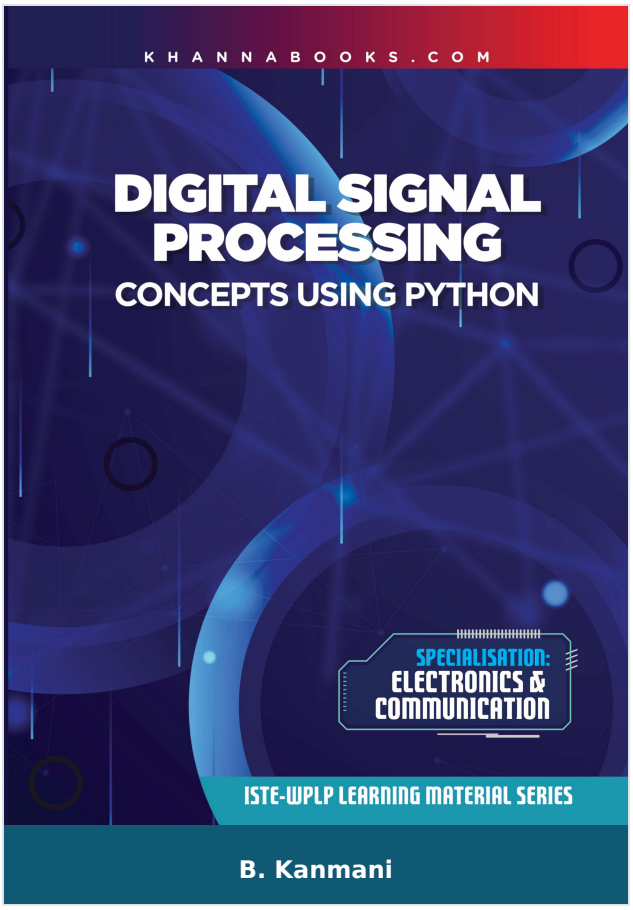

Digital Signal Processing Concepts Using Python

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Product Description

In this book, we have addressed various concepts in the typical Under Graduate course on, 'Digital Signal Processing'. The focus is to have a quick overview of the intended concept. This book is not a replacement to the prescribed text book in the curriculum. However, through the examples illustrated, it helps comprehend the concept. In addition, every Chapter of the book is accompanied by the link to the Python code is developed on the Goggle Colaboratory and hence is an Open source programming environment. No prior knowledge of Python is essential; however, and experience in any programming language will prove useful. The programming approach is to be able to develop the code for the concept from the mathematical equation and avoid the use of in-built functions. We would like to add that, we are using Python, purely to help comprehend the signal processing concept and not develop and efficient Python code. Experienced programmers may build alternate and efficient code.

The motivation for coming out with this compilation, is because, students are usually introduced to the required pre-requisitions in earlier courses. For example, the 'Engineering Mathematics', course is likely to have introduced Calculus (integration, differential equation, difference equation), Laplace Transform, Fourier series, Fourier Transform, Z-Transform. The courses on 'Analog Electronic Circuits and 'Network Analysis', is likely to have introduced basic electronic circuits including resistors, capacitors, inductors and Operational amplifiers, that require the need to obtain the transfer function, the response to a given output. The student is usually introduced to another independent programming language (C/C++/ Python/Matlab /Sci-lab/ R programming/any other), where the emphasis is on the syntax of the language. In this Book, we provide a brief introduction to every pre-requisite; explain the concept, together with few examples for every concept. In addition, wherever applicable, different methods of arriving at the given solution are also included. The concept of Digital Signal Processing

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is complete, even without any reference to Python. The reference to Python is purely for students to explore further.

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- Design and Analysis of FIR Filters
- Analog Butterworth Filters
- Design and Analysis of IIR Filters

Author

B. Kanmani

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Programming in Python

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Product Description

This book is designed to serve as textbook for the students taking this subject. It is a book with a difference form other textbooks as it lays more emphasis on the conceptual concepts that are supported by illustrative examples, plenty of challenging theory and programming exercises, to test your knowledge acquired on the subject.

While writing the book, special emphasis is given to keep the language very simple and lucid; level of presentation is kept simple and illustrative so that even an average reader can grasp the subject matter with quite ease. Practically this book will provide you every thing you need on the subject.

Salient Feature

- Simple and easy language to encourage self-study
- Focus on the conceptual concepts of the subject.
- Demonstrates the development of programs in a good programming style.
- Large number of ready to run programs for reference.
- Large number of very short, short, and long theory questions to test your knowledge about the subject learned.
- Large number of programming exercises to test your programming skills acquired.

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- Operator Overloading
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Prof. R.S. Salaria is a superior teacher, a prolific author and a great motivator. He is an alumnus of IIT, Delhi. He is a Certified Software Quality professional by Ministry of Information Technology, Govt. of India: Sun Certified Programmer as well as Sun Certified Trainer by SUN Microsystems. He is a life member of computer society of India, Mumbai: Institution of Electronics and Telecommunication Engineers, New Delhi: Indian Society for Technical Education, New Delhi: Punjab Academy of Sciences, Patiala. Presently, he is talking initiatives to Sensitize the citizens of this great country about their fundamental responsibilities towards society and seeking their contributions to make the society a wonderful place for happy and peaceful living. </p

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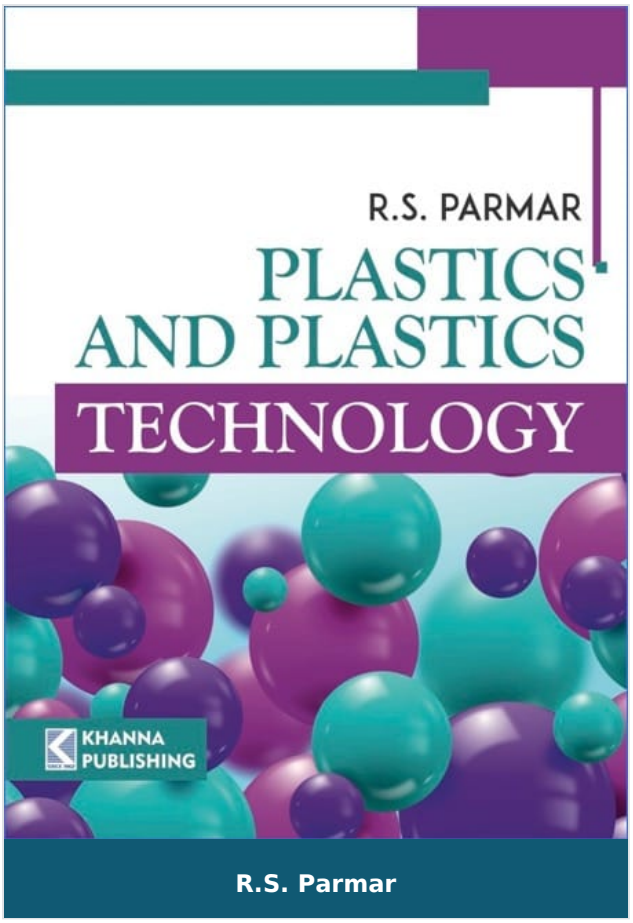

Plastics & Plastics Technology

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Product Description

This book is an outcome of author's desire for deeper knowledge into vital field of plastics without which it is almost impossible to imagine the modern day civilization. There has been an effort to cover all plastics used till date and fairly good details are provided regarding their chemical structure, properties and uses. Production of copolymers and poly alloys is also described. Production of Reinforced Plastics and Composites with their properties and specific uses are as well included.

Because it is essential to know the physical and mechanical properties of the plastics to select these for required service conditions so methods employed to determine such properties are described in fairly good detail. Manufacturing processes to shape the plastics for specific application are detailed at length. That includes molding, casting, welding, forming, machining and miscellaneous processes like calendaring, silk-screening, pultrusion, filament winding etc.

Selection of plastics for specific uses is an important consideration. So important uses of all major engineering plastics are listed. Unlike metals, identification of plastics is not easy but that knowledge is essential for reuse and recycling of them. So identification methods for plastics and their recyclability have been described as per the international norms.

At the end some appendices are included that provide helpful data need for selection and use of different plastics. Some selected standards on Plastics form ASTM and BIS are also included for ready reference for use by industries and researchers alike. Finally, Indian Institutes and Universities awarding degrees and diplomas in Plastic/Polymer Engineering and Technology are also listed for the benefit of those interested in pursuing this filed as their profession.

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Author

R.S. Parmar

Dr. R.S. Parmar is B.A. and B.Sc (Mechanical Engineering) from Punjab University, M.E. (Production Engineering) from University of Roorkee (Now IIT, Roorkee) and Ph.D (Mechanical Engineering) from I.I.T. Kharagpur. He has an experience of more than 50 years in teaching and research in different subject of Mechanical Engineering particularly related to materials and manufacturing processes and technology. He served for about 14 years at R.E.C. (Now NIT), Srinagar (Kashmir), 21 years at I.I.T., Delhi and 20 years at NSIT (Now NSUT), New Delhi. He also served for one year at Brunel University, London (U.K.) He has guided a number of Ph.D., M.Tech., and B.tech. Research Projects and published a large number of technical papers in Indian and foreign journals on different aspects of manufacturing processes. He is a gold medallist from University of Roorkee and has won a number of awards from Institution of Engineers (India), American Welding Society, and Indian Institute of Welding. He is a life Fellow of Institution of Engineers

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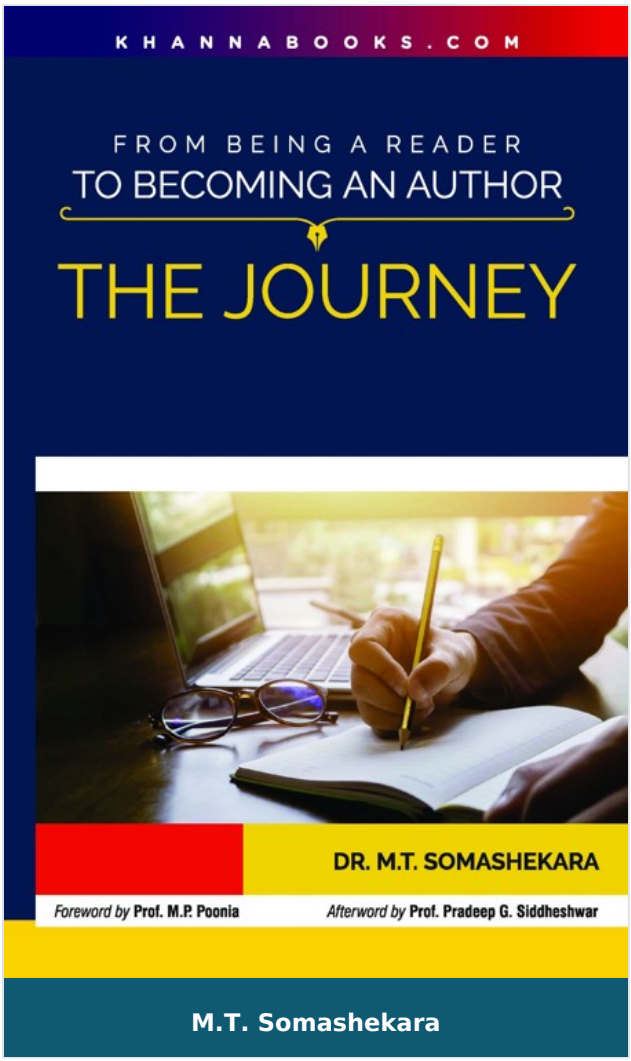

The Journey - From Being a Reader to Becoming an Author

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Product Description

Here is a collection of my motivational and directional messages on authoring academic books. They answer the questions why should a teacher in an institution of higher learning involve in authoring an academic book? And How to go about authoring keeping in mind the expectations from the book’s perspective readers and the expectations from the prospective publishers?

And in addition to these there is one more chapter (9th one) namely “9. Responses from Professors of Eminence, Teachers, Friends and Team Members on the Initiative and on the Motivational and Directional Communications”.

The messages in the well-organized chapters undoubtedly clear all inhibitions in the mind of a teacher aspiring to become an author. The book has thus turned out to be a reference guide consisting of the right set of prescriptions for budding authors of academic books to realize their dream of becoming an author.

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- Directional Communication on How to Go About Authoring
- Responses from Professors of eminence, teachers, friends and team members on the initiative and on the motivational and directional communications.
- Postface
- Afterword.

Author

M.T. Somashekara

M.T. Somashekara is with the Department of Computer Science and Applications, Bangalore University, Bengaluru. He has over two decades of teaching experience at both UG and PG levels. He has authored three other books ‘Problem Solving with C’, ‘Object-Oriented Programming with C++’’ and ‘Object-Oriented Programming with JAVA’ published by PHI Learning Private Limited, New Delhi and all of these have seen multiple editions. They have been adopted as textbooks/reference books for UG and PG courses of more than a hundred universities and autonomous colleges in the country. He has also authored a unique motivational and directional book on authoring academic books entitled ‘The Journey – From Being a Reader to Becoming an Author’ brought out by

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Khanna Publishing House and it is useful for those aspiring to become academic authors as it not only motivates but guides also as to how to go about academic authoring. He has several research papers to his credit in national and international journals. He is a life member of ISTE CSI, ISCA, and IUPRAI. His areas of academic interest include Data Structures, Algorithms, Programming Languages, Operating Systems, and Databases. His areas of research include Image Processing and Pattern Recognition.

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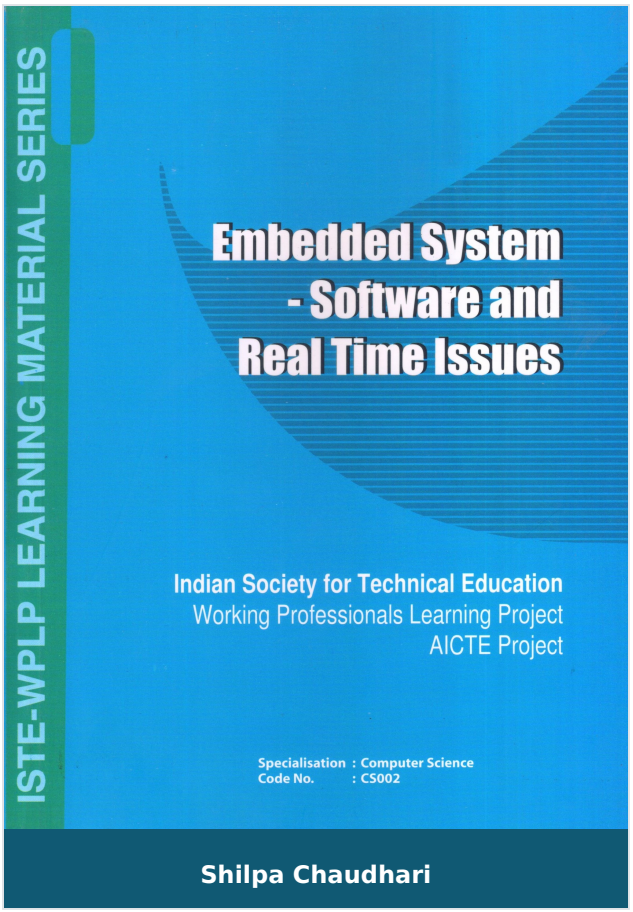

Embedded System- Software and Real Time Issues

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Product Description

This learning material is prepared to train fresh graduates and working professionals, to take up the challenges of embedded system design with special emphasis on embedded software design. Embedded system design is about designing a dedicated system, providing solution to a specific problem by implementing a specific application. Embedded system design uses all existing technologies to provide such application-oriented solution. The design begins with understanding the requirements of specifications are further implemented , using suitable technologies. The learning materials is organized to give overall view of embedded system design with special emphasis on software design.

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- Synchronization
- Mailbox, Message Queue and Memory Partitioning
- Distributed (Networked) Embedded Systems
- Network Programming
- Software Modeling
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- Bibliography

Author

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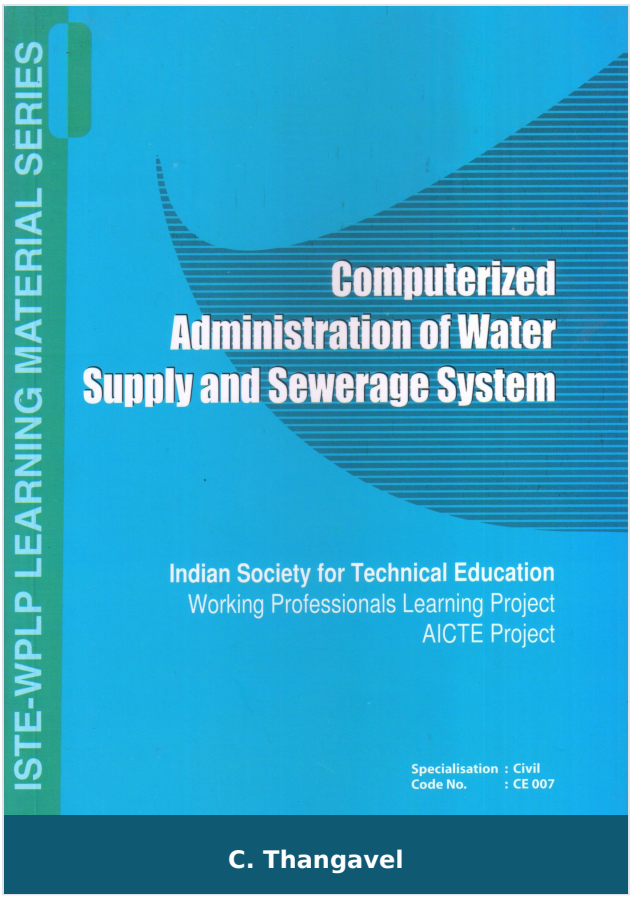

Computerized Administration of Water Supply and Sewerage System

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Product Description

Through working professionals need to spend enough time to learn the state-of-art-technology to improve the existing system, it may be very difficult for them to spare enough time to cope with the tremendous technological changes take it is designed and developed keeping view of their requirements. The main objective of this book is to enable the professionals to identify, update and enhance their knowledge on the technology and put to use in a perfect way to deliver better services to the citizens/customers with sustainability. It has the following important features.

1. Advantages and need for computerization.
2. Procedure to identify the requirements and appropriate technology to use.
3. Steps to be followed during the process of system development and implementation.
4. Data analysis cum mining for decision support.
5. External interfaces for easy integration.
6. Important steps for sustaining the system.

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- External Interfaces for the proposed System
- Evaluation of the Computerized System
- Implementation Issues of the Computerized System
- Annual Maintenance Contract (AMC)
- Procedure for Enhancement/ Upgradation
- Case Study
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Author

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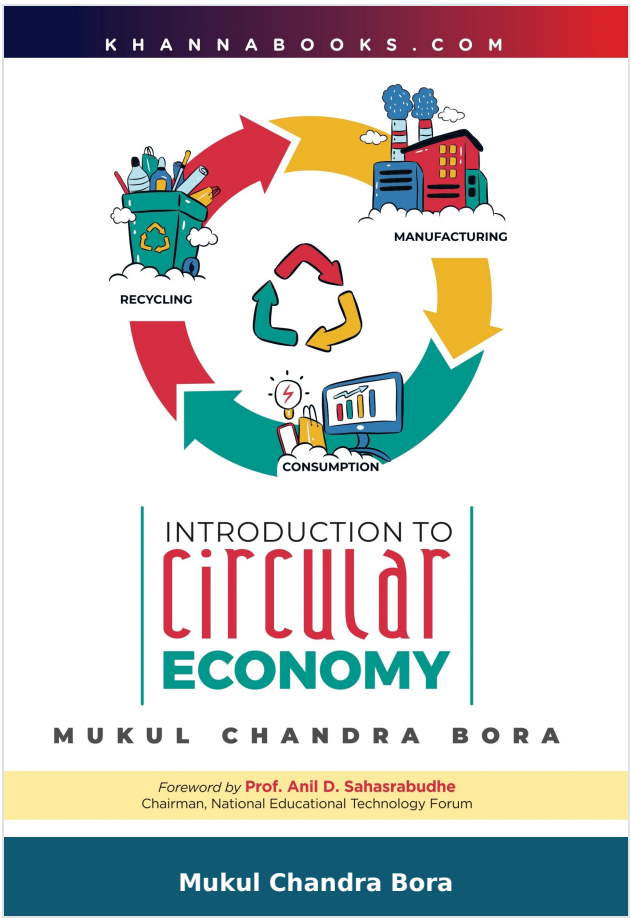

Introduction to Circular Economy

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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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- Design and Circular Economy
- Business Model and Circular Economy
- Business Model and Case Studies in Circular Economy
- Reference (Suggested Reading)

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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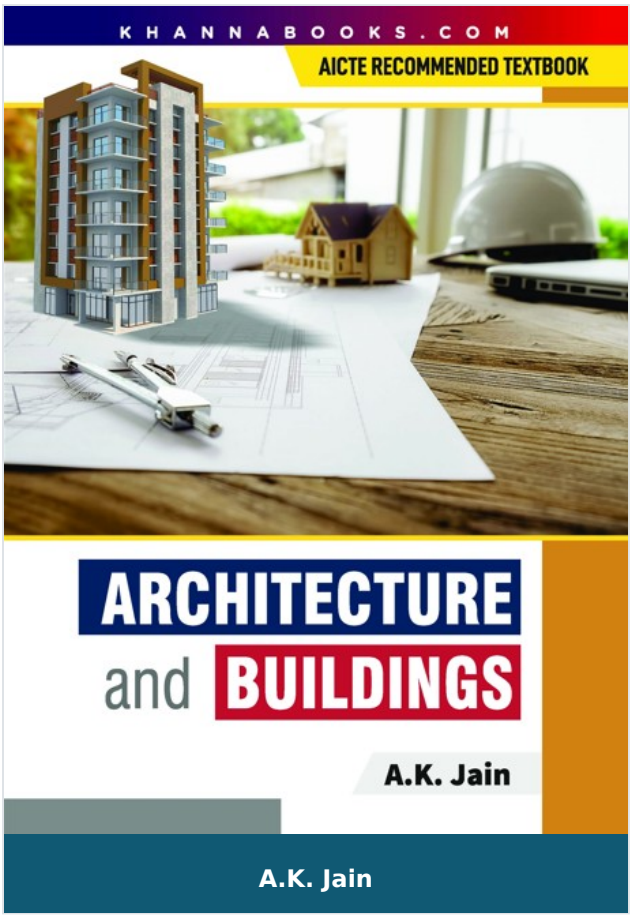

Architecture and Buildings

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ARCHITECHTURE and BUILDINGS: An architect is defined as master builder, one who design buildings and superintends their erection, and the architecture as the art and science of the buildings. Architecture is one of the few professions which strike a balance between technical, artistic, practical, economic and social considerations.

Every building is a part of ecological system and has a footprint It means taking a wide-angle view of the architecture in the context of urbanism, ecology and environment, including, bio-diversity and natural resources, water and energy. As such, architecture is changing from functional to organizational, from architectonic to urbanism and from building’ provides a comprehensive and narrative on history of architecture, Indian architecture, vaastu, the basic of design, green building, building resources and technology, planning and design .

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- Sustainable and Resilient Habitat
- Building Resources and Technology
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- Barrier Free Architecture
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Author

A.K. Jain

A.K. Jain, as Commissioner (Planning) Delhi Development Authority worked on the Master Plan for Delhi-2021, National Urban Housing and Habital Policy, National Urban Transport Policy and various urban projects. He was a member of the Committee Constituted by the Ministry of Urban Development, GOI to review the statute of the Delhi Development Authority vis-a-vis the changing urban scenario and new policy initiatives. As a member of editorial Board of International Journal of Environmental Studies (UK) and is author of several books on urban development and management. He is visiting faculty at Delhi School of Planning and Architecture and other Institutes. He was awarded 2nd Urban

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Professional Award 2014 at World Urban Forum in Medellin, Colombia in recognition of being an exemplary city changer. Union Minister for Urban Development hourured him with IBC Lifetime Achievement Award (2016).

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A Glance over Android with Kotlin

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Product Description

"A Glance over Android with Kotlin" covers all aspects of Android application development in an easy-to-understand approach with examples. Each topic has been developed from the basic concepts.

This book focuses on all the necessary topics of kotlin and java also. It covers all the topics of Android development, for example:

How to design user interface by using Views?

How to persistently store data by using content providers?

How to design mobile applications displaying pictures and menus by using Views?

How to develop Android mobile application for sending messages and e-mail, how to work with location services and maps?

How to run background services in the mobile application?

How to develop applications supporting audio, video and camera of mobile device, etc?

Use of wi-fi sensor and Bluetooth.

NDK, NFC support and telephony service.

All Android widgets and SQL Lite.

With a Complete overview of OOPs this book make the readers familiar with Android development using Kotlin language.

This book is perfect choice for fresher and experienced Android developers who want to learn more about Android development with alternative JVM language.

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- Android Native Development Kit
- Ads
- Up to the minute

Author

Swati Saxena

Swati Saxena, MCA, OCJP (Oracle Certified java Professional) and ADST. She is author of many computer book. Her name is well known in computer education as she is expert in java programming and coding and having in-depth knowledge of subject and very vast experience in developing and training. Her knowledge and teaching is always praised country- wide. The alumnus of her, are well placed in reputed organization all over India.

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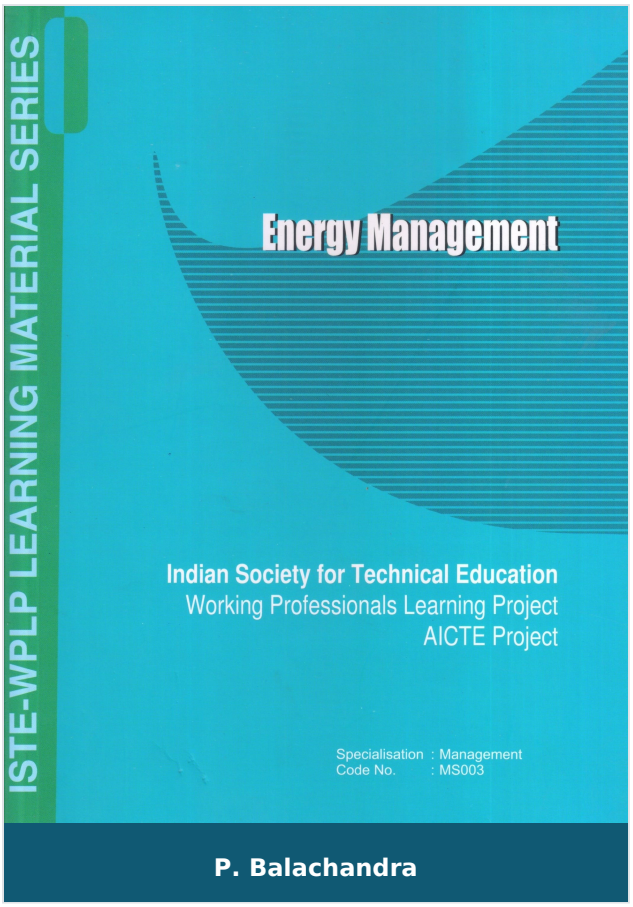

Energy Management

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Product Description

Supply and utilization of energy, forms an integral part of economic development of a country. Further, energy interacts with all aspects of social and economic development, including livelihoods, water, agriculture, industry, environment, population, health education, job creation and gender- related issues. These energy interactions have both positive and negative implications for every sector of the economy as well as for the environment. The objective of the author, is to introduce the prospective readers of this book to the fascinating world of energy and how it interacts with many other systems which are closely connected to the human system. This is done with a focus on India.

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- Renewable Energy.
- Energy Modeling and Integrated Resource Planning.
- Energy Supply and Demand Security,
- Energy Policy and Regulatory Issues.
- Typical Questions
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- Appendix

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