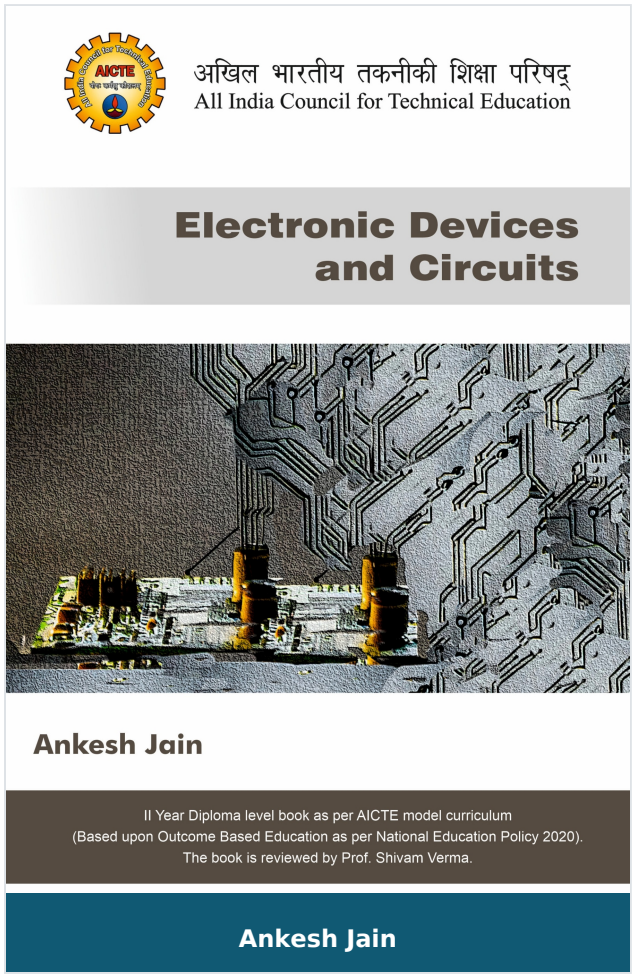

Electronic Devices and Circuits

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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Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Guidelines for Teachers
- Guidelines for Students
- Abbreviations and Symbols
- List of Figures
- List of Tables
- Semiconductor Diodes
- Bipolar Junction Transistor (BJT)
- Field Effect Transistor (FET)
- Power Devices
- Amplifier and Oscillator
- Co and Po Attainment Table
- Index

Author

Ankesh Jain

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

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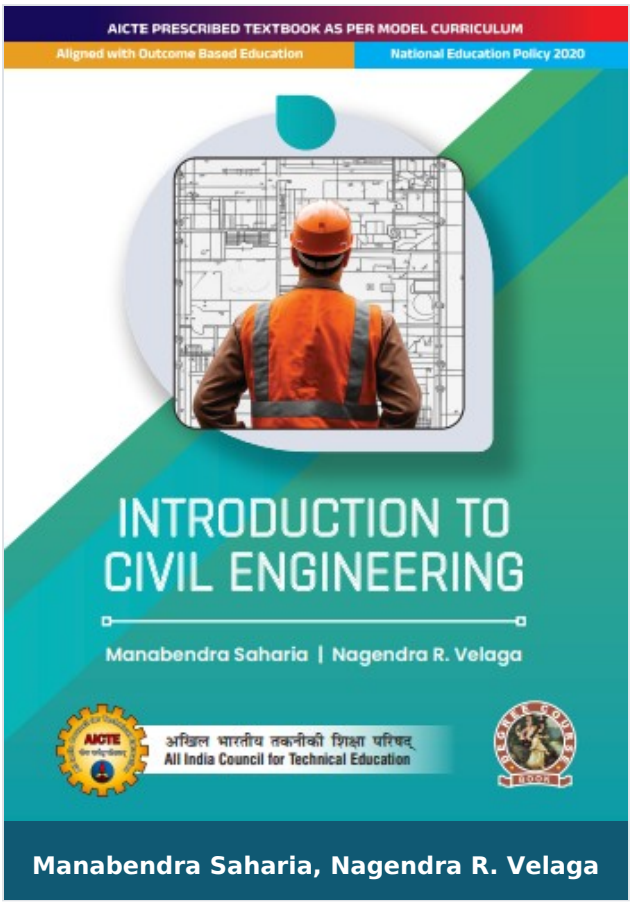

Introduction to Civil Engineering

Author :	Manabendra Saharia, Nagendra R. Velaga
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ISBN 10 :	9355387040
E-ISBN 13 :	978-93-55387-04-2
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Publisher :	Khanna Publishing House
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Condition Type :	New
Country Origin :	India

Product Description

Introduction to Civil Engineering

This book has been written to provide a broad overview of Civil Engineering second year undergraduate students. Syllabus of this book is aligned with the AICTE model curriculum as per the National Education Policy (NEP) 2020. Each topic has been written in an easy and lucid manner with ample examples and QR code links to online resources.

Salient Features:

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

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Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Guidelines for Teachers
- Guidelines for Students
- Abbreviations and Symbols
- List of Figures
- List of Tables
- OVERVIEW OF CIVIL ENGINEERING
- STRUCTURAL ENGINEERING
- GEOTECHNICAL ENGINEERING
- WATER RESOURCES ENGINEERING AND SUSTAINABILITY
- TRAFFIC AND TRANSPORTATION ENGINEERING
- PRACTICAL ACTIVITIES
- References
- Dynamic QR Code for Further Reading

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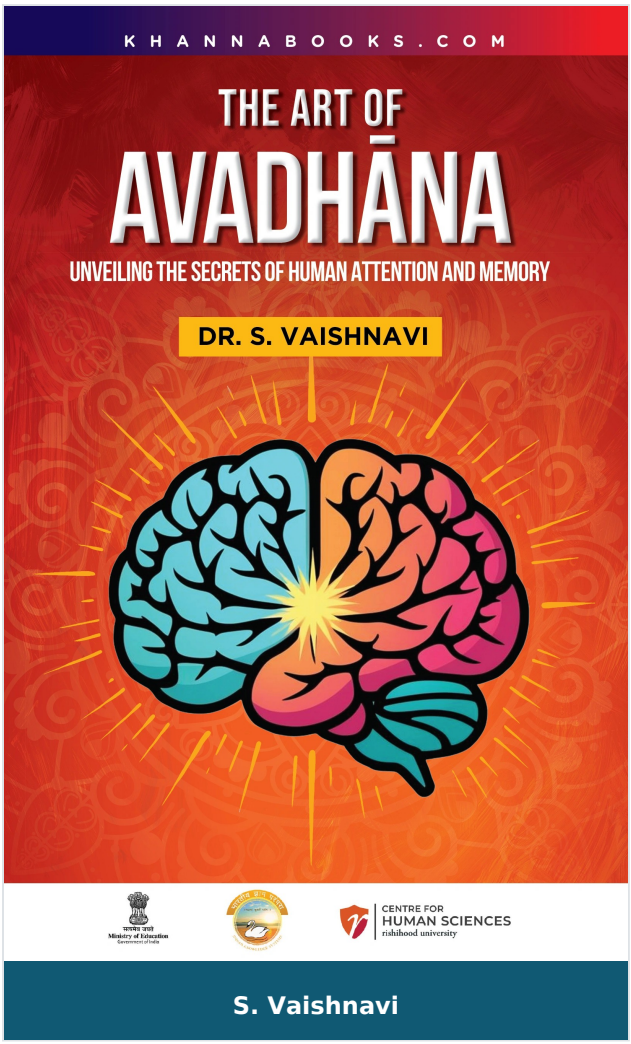

The Art of Avadhanam (Unveiling the Secrets of Human Attention and Memory)

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Product Description

The human mind, with its vast and intricate capabilities, has been a subject of wonder and inquiry across cultures and epochs. Amidst the profound legacy of Indian intellectual traditions, the ancient art of Avadhana shines as a remarkable testament to the extraordinary cognitive potential of the human mind. Rooted in classical disciplines of Sanskrit and other Indian languages, Avadhana exemplifies the harmonization of memory, multitasking, and creativity, encapsulating the extraordinary synergy between linguistic mastery and mental agility. This book delves into the multifaceted dimensions of Avadhana, exploring its relevance as a cognitive phenomenon and its profound implications for understanding human intelligence. The chapters within aim to bridge the traditional practice of Avadhana with contemporary perspectives on memory, focus, and the neuropsychology of learning. By doing so, I hope to illuminate its enduring significance, not only as a literary and cultural treasure but also as a practical framework for enhancing mental faculties in today's world. I was extensively inspired by the Avadhana art form and its remarkable demonstration of the human mind’s responses and functions. Witnessing this art directly was a transformative experience, deepening my appreciation of its cognitive intricacies and its potential applications. The foundation of this work owes much to the tireless efforts of Prof. Sampadananda Mishra, whose vision and leadership under the Indian Knowledge Systems (IKS) initiative have been instrumental in shaping this project. Prof. Mishra has been at the forefront of reviving and promoting the art of Avadhana, organizing three outcome-oriented workshops and training programs at the National Sanskrit University, Tirupati. These programs have not only provided practical insights into the nuances of Avadhana but have also cultivated a new generation of practitioners and researchers dedicated to this extraordinary tradition. I sincerely thank Prof. Mishra, my mentors, colleagues, family, and the custodians of this ancient tradition, whose insights, guidance, and unwavering encouragement have deeply enriched this work. This book is an invitation to rediscover the boundless possibilities of

the human mind and the timeless wisdom embedded in India’s cultural heritage. May it inspire a renewed appreciation of Avadhana and spark meaningful conversations across disciplines.

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Table Of Contents

- Preface
- Introduction
- Cognitive Abilities in Avadhana
- Psychological Elements in Avadhana
- Neuroscientific Perspectives
- Other Skills
- Applications of Avadhana in Modern Context
- Challenges and Future Directions
- Conclusion
- Reference
- Glossary

Author

S. Vaishnavi

Dr. S. Vaishnavi is a leading Sanskrit scholar, researcher, and educator dedicate to integrating traditional wisdom with modern learning. Her expertise spans Traditional pedagogies, psychology, and Cognitive Science, Holding a Ph.D. in Sanskrit from national Sanskrit University, Tirupati, alongside degree in Education, Psychology, and other disciplines, she boasts a strong academic foundation. as an Assistant Professor at national Sanskrit University for five Years, Dr. Vaishnavi mentored research scholars and contributed significantly to academia through publications and lectures. She has presented at numerous national and international conferences and actively participated in educational projects like Digital Chitrapadakosha and Swayam Prabha courses. Known for her oratory skills and leadership in education, she bridges the gap between ancient

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knowledge and contemporary teaching methodologies, shaping the future of Sanskrit education through innovative curriculum development and a deep commitment to research and pedagogy.

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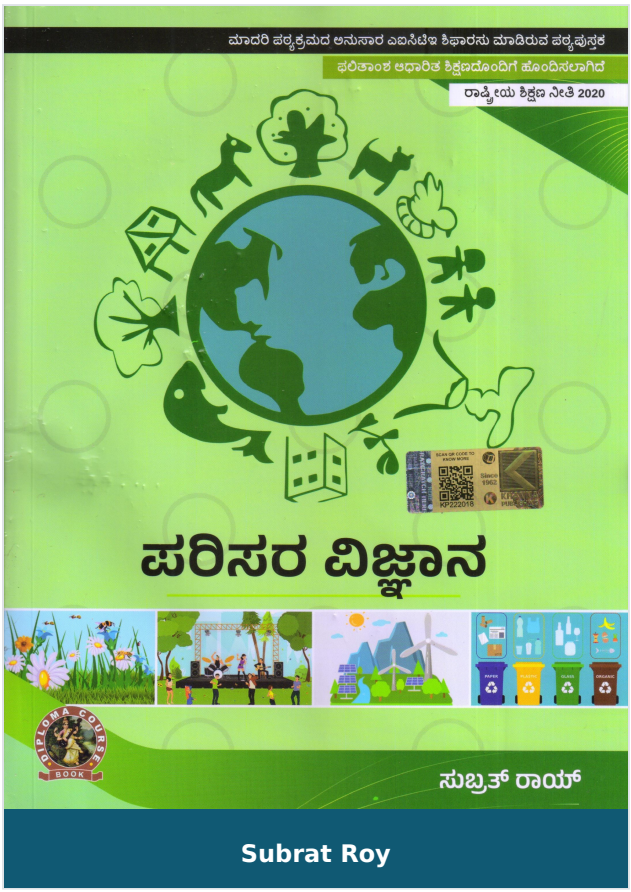

Environmental Science

Author :	Subrat Roy
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Product Description

“Environmental Science” is an audit course for the first year Diploma programme in Engineering & Technology. Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is amalgamated with the concept of outcome-based education.

Book covers four units- Ecosystem, Air and Noise Pollution, Renewable Sources of Energy and Solid waste management, ISO 14000 & Environmental Management, Every unit contains as set of exercise at the end of each unit to test the student’s comprehension.

Some salient features of the book:

1. Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.

2. Book provides lots of recent information, interesting facts, QR Code for E-resources, QR Code for use of ICT, projects, group discussion etc.

3. Student and teacher centric subject materials included in book with balanced and chronological manner.

4. Figures and tables are insert to improve clarity of the topics.

5. Objective questions, Short questions and long answer exercise given for practice of students after every unit.

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Table Of Contents

- Foreword,
- Acknowledgement,
- Preface,
- Outcome Based Educations,
- Course Outcomes,
- Abbreviations and symbols,
- List of Figures,
- Guidelines for Teachers,
- Guidelines for Students,
- Ecosystem
- Air and Noise pollution
- Renewable sources of Energy
- Soil waste Management, ISO 14000& Environmental management.
- Important Day Related to Environment
- CO and Po Attainment Table
- Index.

Author

Subrat Roy

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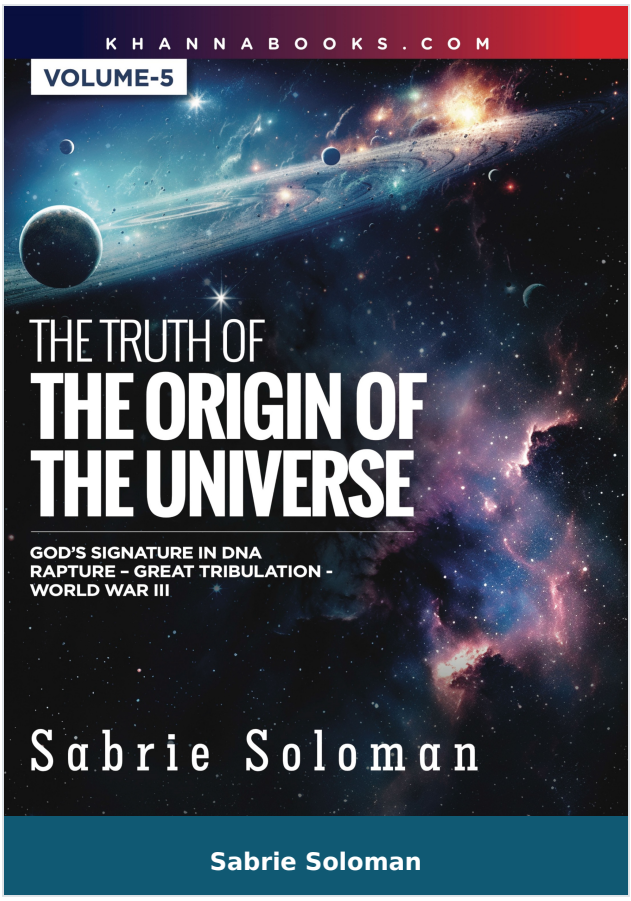

The Truth of The Origin of The Universe (GOD,S Signature in DNA Rapture- Great Tribulation - World War III) Volume - 5

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Product Description

God’s Signature in DNA the Rapture The Great Tribulation Armageddon War (World War lll)

The concept of God’s signature in DNA is a fascinating topic that explores the intricate design and complexity of the human genome Many creationists and religious believers see the complexity and precision of DNA as evidence of an intelligent designer or creator pointing to the existence of a higher power The idea that DNA contains a signature of God’s handiwork is a theme often discussed in religious and philosophical circles highlighting the wonder and mystery of life itself.

Moving on to the topics of the Rapture the Great Tribulation and the Armageddon War these concepts are deeply embedded in Christian eschatology or the study of end times The Rapture is believed to be the biblical event where believers are taken up to heaven to be with God before a period of tribulation and judgment on earth The Great Tribulation is a period of intense suffering and turmoil that prophesied to occur before the final battle of Armageddon believed by the author to be world war lll.

These apocalyptic beliefs have captured the imagination of many believers and have inspired countless books movies and religious teachings while interpretations of these events may vary among different Christian denominations the underlying message of hope redemption and faith in the face of adversity remains a central theme.

Chapters Covered in This Book:

1. The Signature of the Creator in DNA.
2. The Moral Laws.
3. The Beginning and the Ending of the Universe.
4. Will Robots Inherit the Earth.

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5. The Universe is Being Held Together.

6. The Mystery of 6 Day Creation.

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Table Of Contents

- Dedication
- Foreword
- Preface
- Acknowledgements
- About the Author
- Introduction
- The Signature of The Creator On DNA
- The Universe Is Being Held Together
- The Moral Laws
- The Mystery of 6-Days Creation
- The Beginning and the Ending of Universe
- Will Robots Inherit The Earth?

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 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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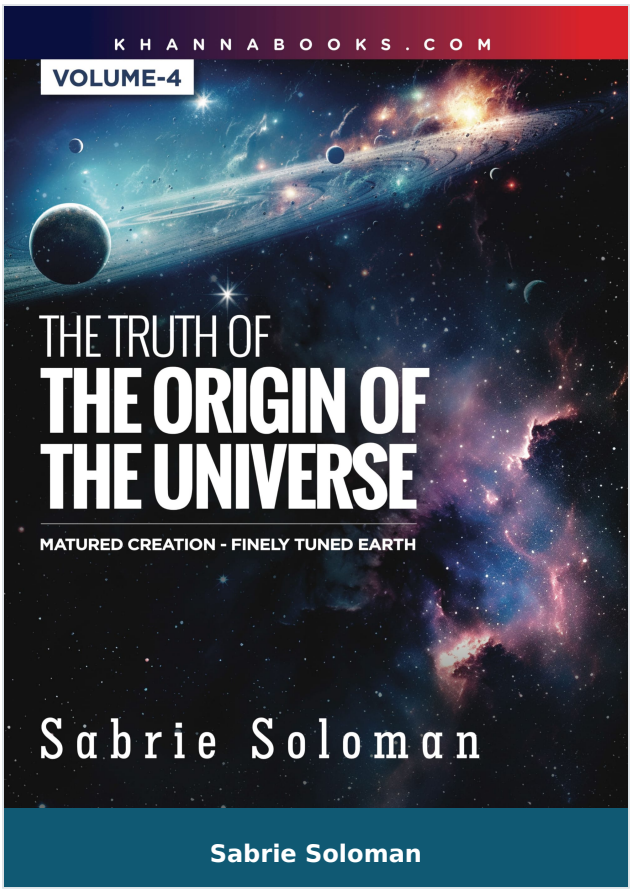

The Truth of The Origin of The Universe (Matured Creation- Finely Tuned Earth) Volume-4

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Product Description

Fully Matured Universe and Finely Tuned Earth.

The concept of a matured creation and a finely tuned Earth is a fascinating topic that has sparked much debate in the realms of science, religion, and philosophy. Proponents of this idea argue that the universe and the Earth were created in a state of maturity and perfection, with all the necessary conditions for life to thrive.

One of the key arguments for a matured creation is the idea of fine-tuning in the universe. This concept suggests that the fundamental physical constants and laws of nature are precisely calibrated to allow for the existence of life as we know it. For example, if the strength of gravity or the electromagnetic force were even slightly different, life as we know it would not be possible. This level of precision has led some to suggest that a higher power must have orchestrated the creation of the universe with the express purpose of allowing life to flourish on Earth.

Moreover, the Earth itself is viewed as a finely tuned machine that provides the perfect conditions for life. From the composition of the atmosphere to the distance of our planet from the sun, everything seems to be finely calibrated to allow for the existence living organisms. The intricate ecosystems that exist on Earth further demonstrate complexity and harmony of this finely tuned planet.

Chapters Covered in This Book:

1. Young Universe –Young Earth.
2. Earth’s Magnetic Field – Earth Age.
3. Life in a finely Tuned Cosmos.
4. The entity of the Creator.
5. Uranus and Neptune are young planets.

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6. 101 Evidence for a young Earth.

7. Isaac newton’s Recognition of the Creator.

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Table Of Contents

- Dedication
- Foreword
- Preface
- Acknowledgements
- About the Author
- Introduction
- Young Universe – Young Earth
- Saturn, Uranus, Neptune and Jupiter are Young Planets
- Earth’s Magnetic Field – Earth Age
- Can Science Prove the Age of The Earth
- Life in a Finely Tuned Cosmos
- The Entity of the Creator
- ISAAC Newton’s Recognition of the Creator

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),

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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 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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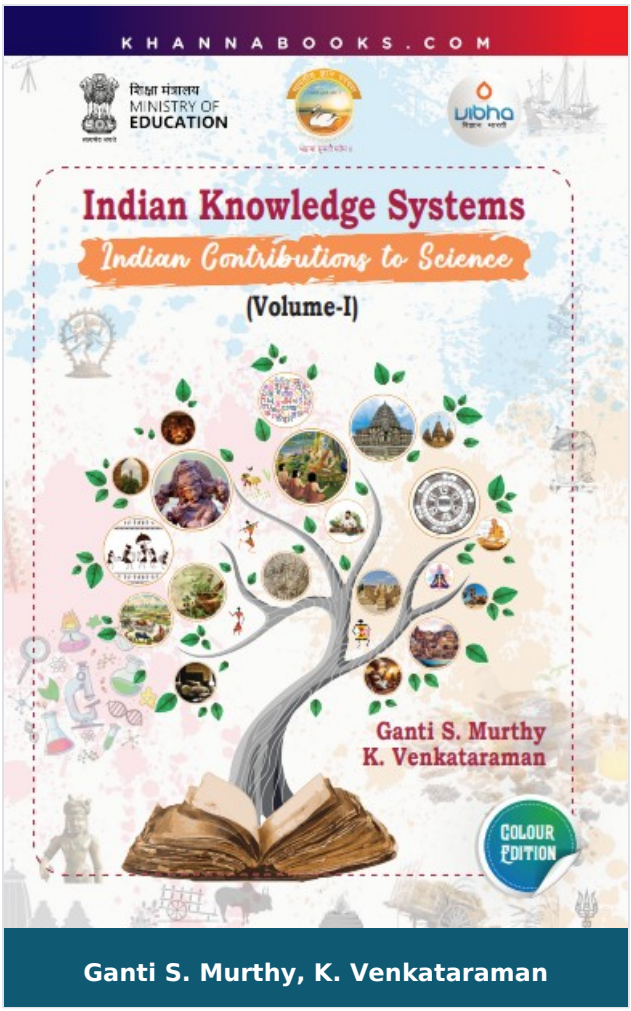

Indian Knowledge Systems (Indian Contributions to Science), Volume-I, Colour Edition

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Product Description

Indian Knowledge Systems (Indian Contributions to Science), Volume-I, Colour Edition

Indian Knowledge system (Volume-1): Indian Contribution to Science offers a profound journey into the intellectual heritage of India, presenting its timeless knowledge not as a historical artefact, but as vibrant and relevant resource for the contemporary modern world. This volume masterfully bridges the ancient and the contemporary, revealing how India’s holistic and interdisciplinary traditions – from astronomy and mathematics to chemistry medicine, ecology and agriculture—provide deep insights into the globally recognized academic and research fields of fundamental and applied sciences and technology. Meticulously researched and thoughtfully complied, this book is and essential read for students, educators, and anyone curious to discover the depth and sophistication of the Bhartiya Jnana Parampara also referred to as Indian Knowledge Systems (IKS).

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Table Of Contents

- Messages
- Foreword
- From The Editors Desk
- Acknowledgement
- List Of Figures and Tables
- A Note on LAST Diacritical Marks Used
- Introduction To IKS: Origins and Evolution
- Indian Astronomy: Calendrical Systems
- Indian Astronomical Instruments (Yantras)
- A Glimpse of Indian Mathematics
- A Glimpse of Indian Chemistry (Rasayanasastra)
- Ayurveda: The Holistic Science of Well-Being
- Traditional Medicinal Plants
- Indian Traditional Agriculture
- About The IKS Division

Author

Ganti S. Murthy

Prof. Ganti S. Murthy is a professor of Biosciences and Biomedical Engineering at the Indian Institute of Technology Indore. He serves as the National Coordinator for Indian Knowledge Systems (IKS), an initiative of the Ministry of Education, government of India, and is the founding Head of the center for Indian Scientific Knowledge Systems at IIT Indore. With a Ph.D. in Agricultural and Biological Engineering from the University of Illinois at Urban-Campaign, and prior tenure as a professor at Oregon State University,

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Professor Murthy brings a distinguished international research background to the study of traditional Indian agronomy. His scholarly work is focused on sustainable bioprocessing and the analysis of engineered systems, with a particular interest in the resilience of agro-ecological systems. He has played a pivotal role in numerous national committees, including those under the NCERT and UGC, aimed at incorporation IKS into educational curricula and policy. His research group is dedicated to developing sustainable solutions that are technically feasible, economically viable, and environmentally conscious.

K. Venkataraman

Prof. Ganti S. Murthy is a professor of Biosciences and Biomedical Engineering at the Indian Institute of Technology Indore. He serves as the National Coordinator for Indian Knowledge Systems (IKS), an initiative of the Ministry of Education, government of India, and is the founding Head of the center for Indian Scientific Knowledge Systems at IIT Indore. With a Ph.D. in Agricultural and Biological Engineering from the University of Illinois at Urban-Campaign, and prior tenure as a professor at Oregon State University, Professor Murthy brings a distinguished international research background to the study of traditional Indian agronomy. His scholarly work is focused on sustainable bioprocessing and the analysis of engineered systems, with a particular interest in the resilience of agro-ecological systems. He has played a pivotal role in numerous national committees, including those under the NCERT and UGC, aimed at incorporation IKS into educational curricula and policy. His research group is dedicated to developing sustainable solutions that are technically feasible, economically viable, and environmentally conscious.

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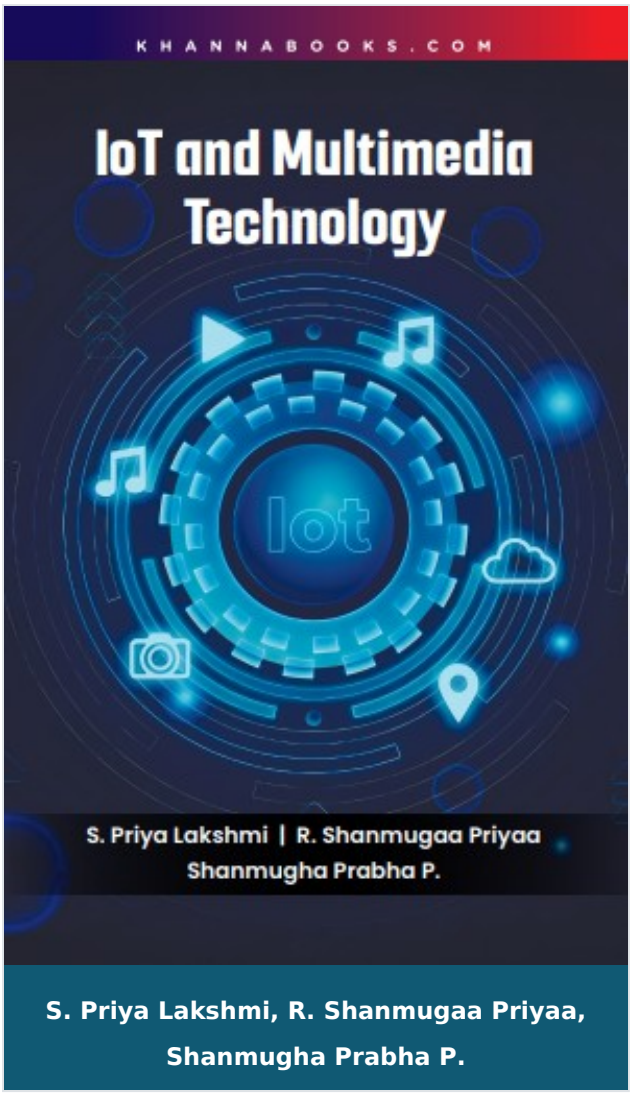

S. Priya Lakshmi, R. Shanmugaa Priyaa, Shanmugha Prabha P.

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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Table Of Contents

- Multimedia Big Data in IoT Ecosystems
- Guaranteed Service Model
- Multimedia Transport
- Evolution Embedded Internet
- Application Environment

Author

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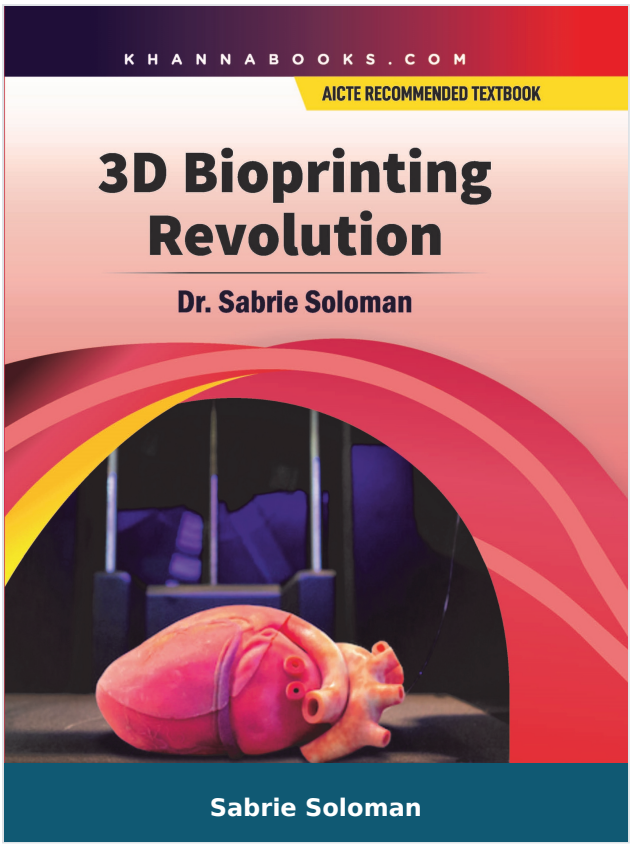

3D Bioprinting Revolution

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Product Description

This book provides a comprehensive guide to the principles and optimal applications of 3D bioprinting technologies. It explains the operational basics, along with similarities and differences among various bioprinters. School students, university undergraduates, and postgraduate students in biomedical and life sciences will find this book highly valuable in understanding and exploring bioprinting for real-world applications. It not only builds foundational knowledge in design and implementation but also inspires learners to experiment and create their own biological models. Educators, researchers, and medical professionals will be equipped with the insights needed to advance this revolutionary technology within their institutions and industries.

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Table Of Contents

- 3D Bio-Printing Technology
- The Bioprinting Revolution
- Additive Bio-Manufacturing
- Organ Printing
- 3D Printing Scaffolds
- 3D Bioprinting Regenerative Medicine
- Rapid Prototyping - 3D Bioprinting Orthopedics
- The Digital Revolution - 3D Bioprinting Bio-manufacturing
- Organ Printing - Discovering Novel Treatments and Drugs
- 3D Bioprinting Innovative 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

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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 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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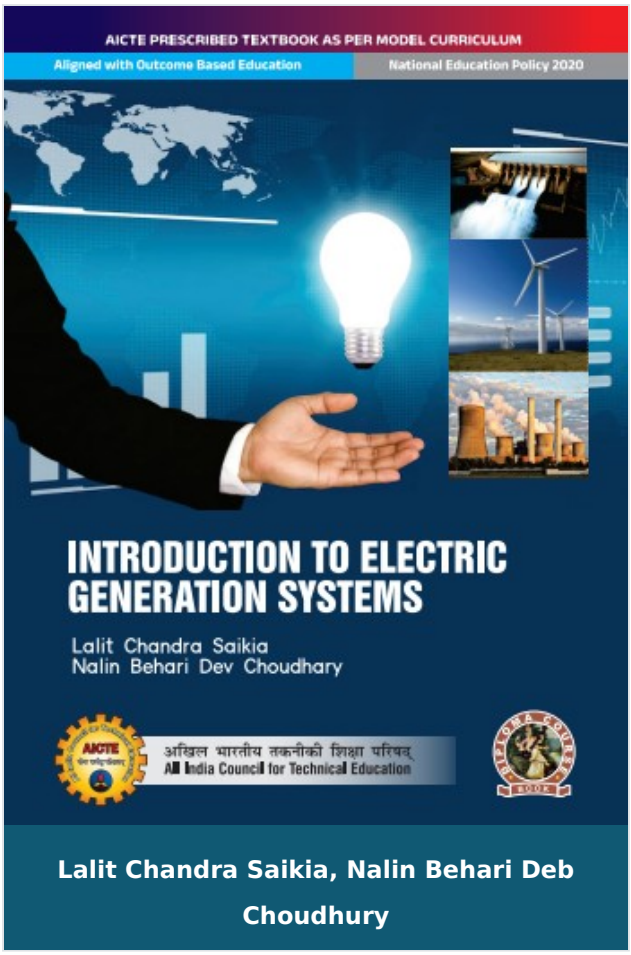

Introduction to Electric Generation Systems

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Product Description

Introduction to Electric Generation Systems

This book familiarizes the students with the basics of electrical power generation. This covers all the thermal, hydro, solar, wind, and biomass power plants. The interconnected power systems, power plant economics, and related terms, blackout, and brownout are also included. The basic principles, layout, working, types, and related components of all the power plants, and practical experiments are described clearly. The main content of this book is aligned with the model curriculum of AICTE followed by the concept of 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, 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.

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- Solved and unsolved problems including numerical examples are solved with systematic steps.

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Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Guidelines for Teachers
- Guidelines for Students
- Abbreviations and Symbols
- List of Figures
- List of Tables
- Thermal Power Plants: Coal, Gas/ Diesel, and Nuclear-based
- Large and Micro-Hydropower Plants
- Solar and Biomass-based Power Plants
- Wind Power Plants
- Economics of Power Generation and Interconnected Power System
- Appendices
- Co and Po Attainment Table
- Index

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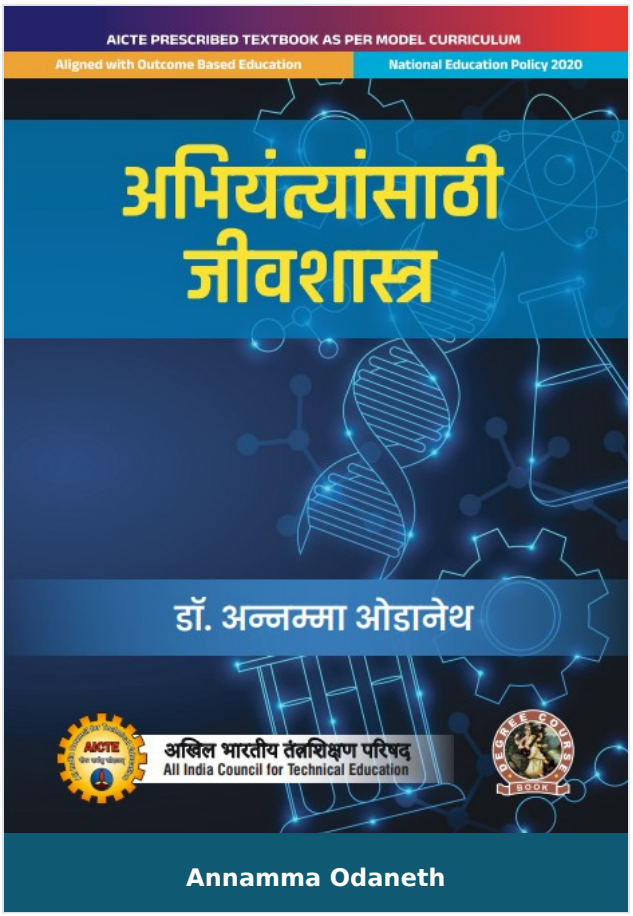

Biology for Engineers

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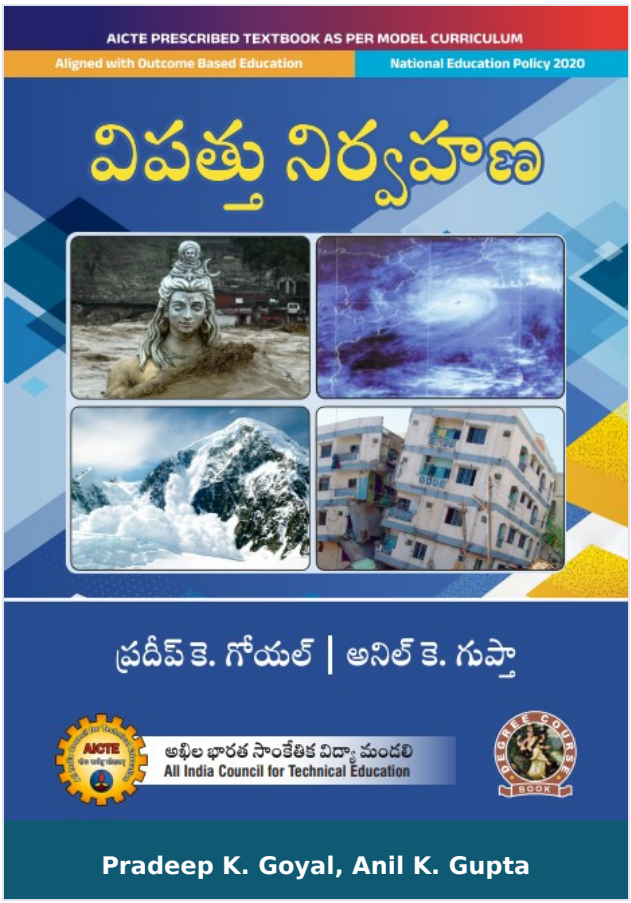

Disaster Management

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