

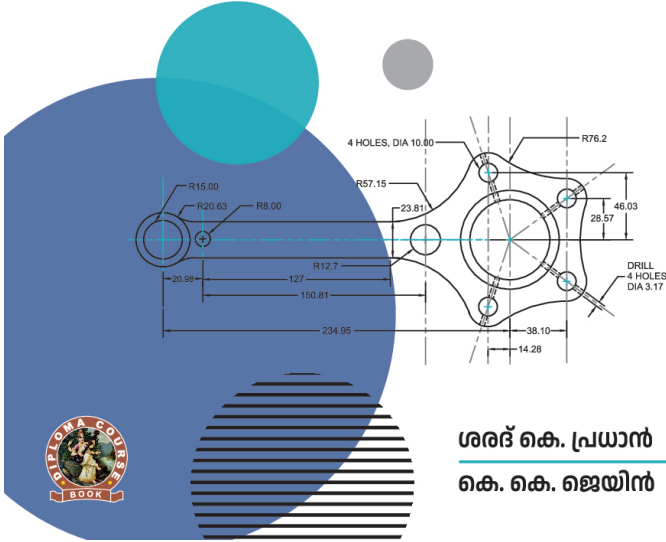
മാതൃകാ പാഠ്യപദ്ധതി പ്രകാരം AICTE നിർദ്ദേശിച്ച പാഠപുസ്തകം

ഫലാധിഷ്ഠിത പാഠ്യപദ്ധതി

ദേശീയ വിദ്യാഭ്യാസ നയം 2020

എഞ്ചിനീയറിംഗ്

ഗ്രാഫിക്സ്



ശ്രീ കെ. പ്രധാൻ
കെ. കെ. ജെയിൻ

Engineering Graphics

Author :	K. K. Jain
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Product Description

“ Engineering Graphics” is a compulsory paper for the first year Diploma course 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 six topics- Basic Elements of drawing , Orthographic Projections, Isometric Projections, Free Hand Sketcher of Engineering Elements, Computer Aided Drafting Interface, Computer Aided Drafting. Each topic is written in easy and lucid manner. Every chapter contains a 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 is aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.2. In start of each unit learning outcomes are listed to make the student understand what is expected out of him/ her after completing that unit. 3. Book provides lots of recent information, interesting facts, Codes for E-resources, QR Code for use of ICT, projects, group discussion etc. 4. Student and teacher centric subject materials included in book with balanced and chronological manner. 5. Figures, tables and software screen shots are inserted to improve clarity of the topics. 6. Apart from essential information a ‘Know More’ section is also provided in each unit to extend the learning beyond syllabus. 7. Short questions, objective questions and long answer exercises are given for practice of students after



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Table of Contents

Foreword,

Acknowledgement,

Preface,

Outcome Based Educations,

Course Outcomes,

Abbreviations and Symbols,

List of Figures,

List of tables Guidelines for Teachers,

Guidelines for Students

UNIT 1: Basic Elements of Drawing.

UNIT 2: Orthographic Projections.

UNIT 3: Isometric Projections.

UNIT 4: Free Hand Sketches of Engineering Elements.

UNIT 5: Computer Aided Drafting Interface.

UNIT 6: Computer Aided Drafting.

Author

Sharad K. Pradhan

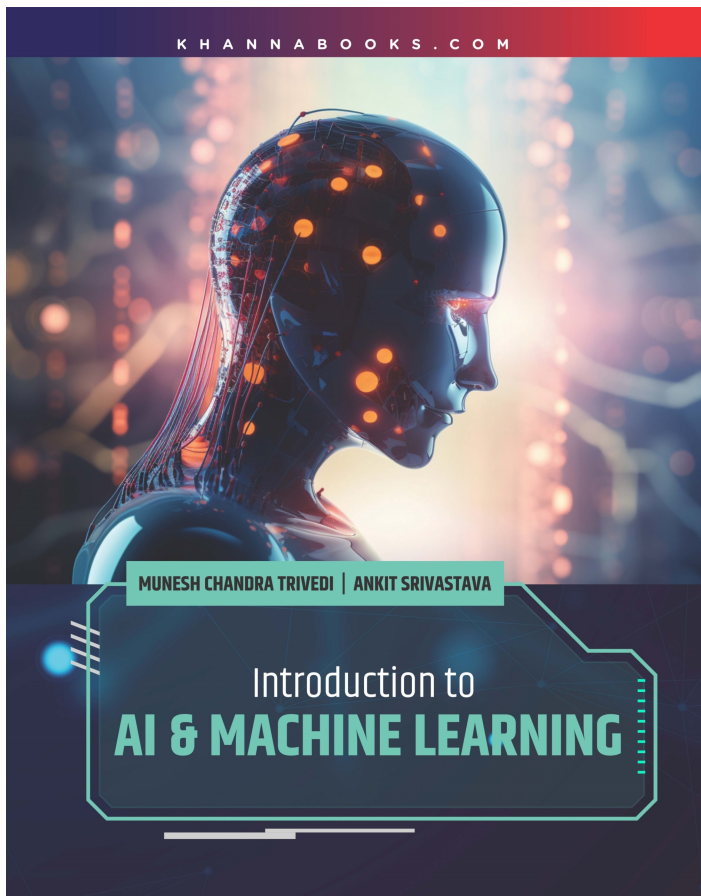
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Introduction to AI & Machine Learning

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Product Description

INTRODUCTION TO AI & MACHINE LEARNING “Introduction to AI and Machine Learning” is a comprehensive guide designed for readers who are new to the fields of artificial intelligence (AI) and machine learning (ML) The book aims to demystify these valuable insights for those with some foundation Knowledge. This book is ideal for students and educators seeking a thorough introduction to AI and ML. By the end of the book, readers will have a solid understanding of the fundamental concepts of AI and ML and will be able to write basic AI and ML programs using python.

KEY FEATURES OF THE BOOK

1. Simple Language: Utilizes straightforward and easily understandable language throughout the text.
2. Engaging Learning Experience: Incorporates hands -on activities to enhance the learning experience.
3. Foundational Concepts: Introduces AI and ML, covering weak vs. strong AI, machine learning methods (supervised, unsupervised and reinforcement learning), and optimization techniques.
4. Search Algorithms: Discusses Problem- solving strategies such as BFS, DFS, and A*, with illustrations from examples like the water jug and 8- queen problems.
5. Practical Applications: Highlights real- world applications across various industries, supported by case studies and examples.
6. Hands on Approach: Offers practical exercises and coding examples using python for a better understanding of the subject.

Table of Contents

Chapter 1: Artificial Intelligence. **Chapter 2:** (Idea of Machine Learning). **Chapter 3:** Linear Regression. **Chapter 4:** (Logistic Regression). **Chapter 5:** (Discussion on clustering). **Question Bank**

Authors

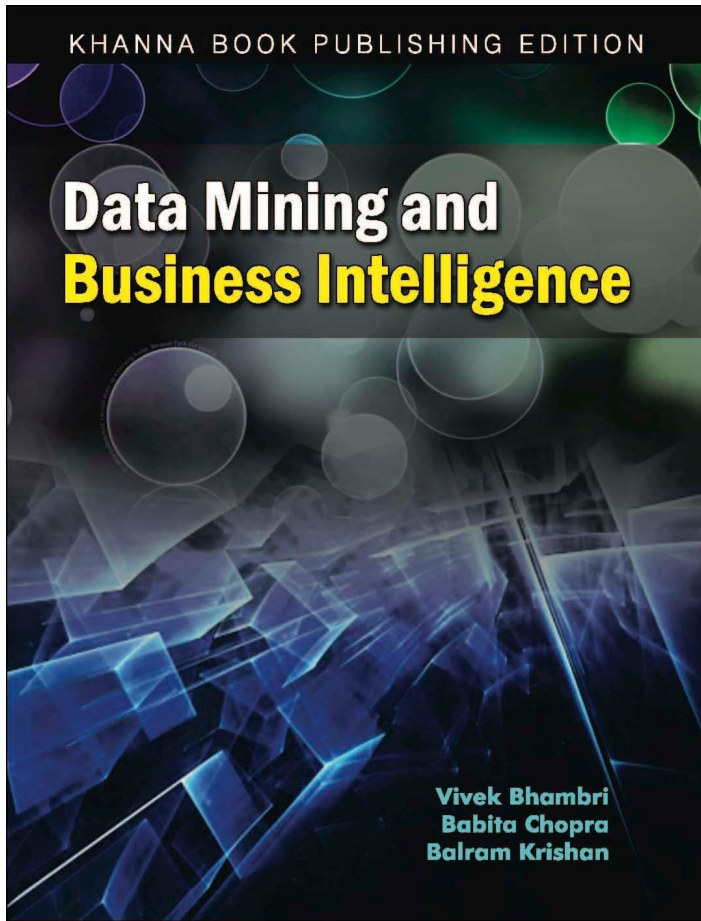
Munesh Chandra Trivedi Ankita Srivastava



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Data Mining and Business Intelligence

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Product Description

It has been rightly said that "people who can't see the value in data mining as a concept either don't have the data or don't have data with integrity." The concepts of data mining and business intelligence are necessary for survival in the present era of cut throat competition. This book 'data mining and business intelligence' has been designed as a basic text-book for computer science students at post graduation and under graduation levels. It explains the technical concepts of this hot area in simple and easily understandable language. It covers the complete syllabus of MCA, B. Tech courses of Punjabi University, Punjab University, Punjab Technical, Guru Nanak Dev University and Kurukshetra University for the courses in Data Mining and Business Intelligence.



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Table of Contents

Chapter 1: Introduction To Data Warehousing. **Chapter 2:** Data Warehouse Molding. **Chapter 3:** Building a Data Warehouse. **Chapter 4:** Data Ware House Architecture. **Chapter 5:** Data Mining. **Chapter 6:** Association Rules Mining. **Chapter 7:** Classification. **Chapter 8:** Prediction Techniques. **Chapter 9:** Clustering Technique. **Chapter 10:** Application Areas Of Data Mining. **Chapter 11:** Introduction To Business Intelligence. **Chapter 12:** Concepts Of Data Management & Enterprise Reporting.

Authors

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KHANNA BOOK PUBLISHING EDITION

Programming in C & C++



POOJA SRIVASTAVA

Programming in C & C++

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Condition Type :	New
Country Origin :	India

Product Description

This book has been designed in a very systematic and logical manner. Each topic has been developed from the basic concepts. Practically every major point in the text is illustrated with suitable examples and screen shots. The text uses sample programs, case studies, programming problems and many more pedagogical aids to enable better understanding of these languages. This will help the students in understanding the basic theory and train them in solving every problem systematically, and confidently. A large number of unsolved as well as solved exercises have also been included in the book.


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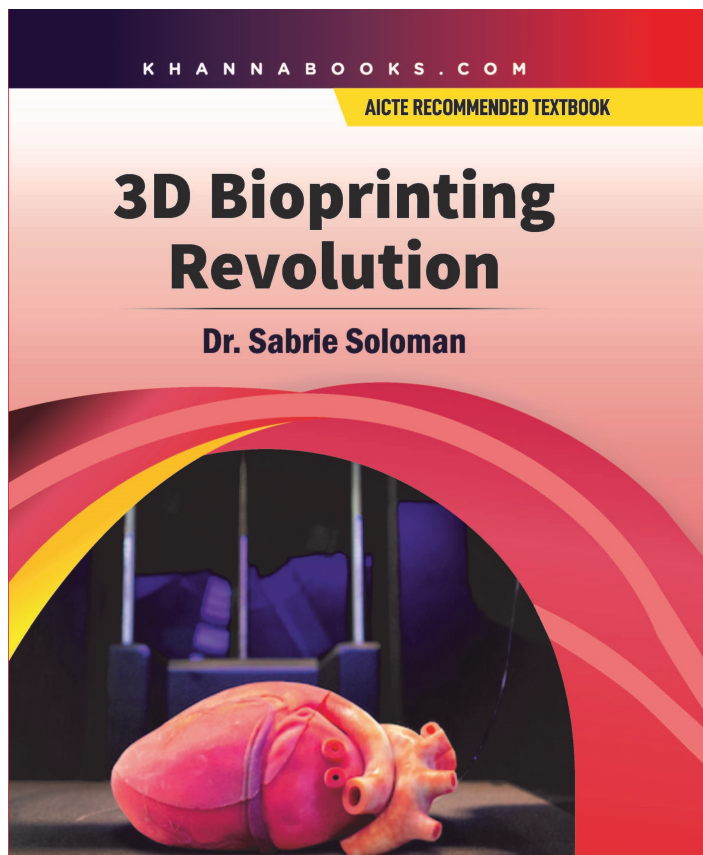
Table of Contents

Chapter 1: Object Oriented Programming. **Chapter 2:** Operators. **Chapter 3:** Control Flow Statement. **Chapter 4:** Structure. **Chapter 5:** Function. **Chapter 6:** Class & Object. **Chapter 7:** Arrays & Strings. **Chapter 8:** Operator Overloading. **Chapter 9:** Ploymorphism. **Chapter 10:** Inheritance. **Chapter 11:** Pointers. **Chapter 12:** File Handling.

Author

Pooja Srivastava





3D Bioprinting Revolution

Author :	Sabrie Soloman
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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

Chapter 1: 3D Bio-Printing Technology .

Chapter 2: The Bioprinting Revolution.

Chapter 3: Additive Bio-Manufacturing.

Chapter 4: Organ Printing.

Chapter 5: 3D Printing Scaffolds.

Chapter 6: 3D Bioprinting Regenerative Medicine.

Chapter 7: Rapid Prototyping - 3D Bioprinting Orthopedics.

Chapter 8: The Digital Revolution - 3D Bioprinting Bio-manufacturing.

Chapter 9: Organ Printing - Discovering Novel Treatments and Drugs.

Chapter 10: 3D Bioprinting Innovative Design.

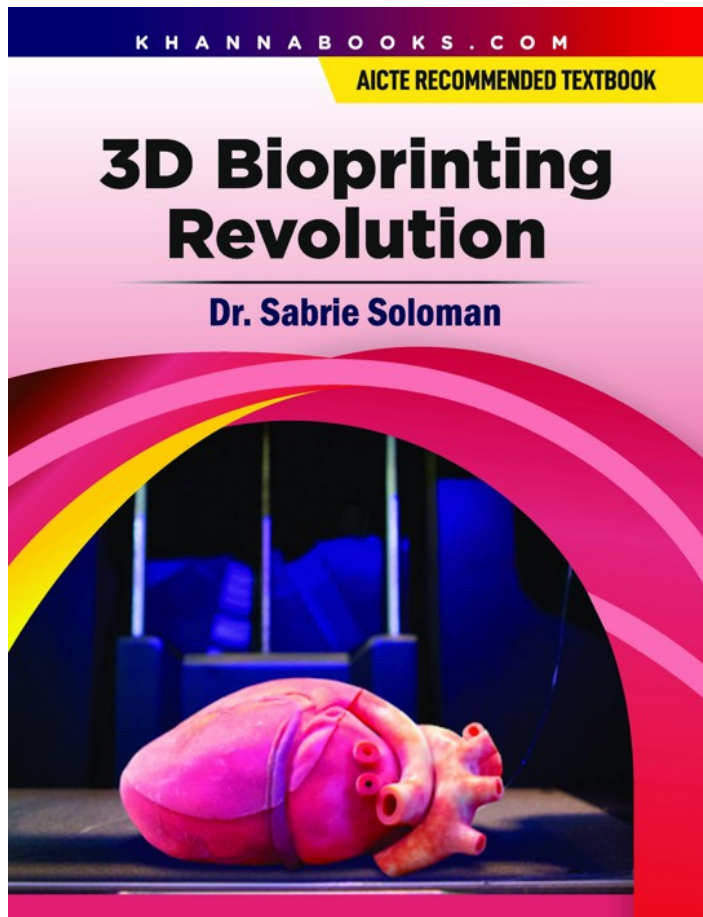


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Dr. Sabrie Soloman

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.





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

Chapter 1: 3D Bio-Printing Technology. **Chapter 2:** The Bioprinting Revolution. **Chapter 3:** Additive Bio-Manufacturing. **Chapter 4:** Organ Printing. **Chapter 5:** 3D Printing Scaffolds. **Chapter 6:** 3D Bioprinting Regenerative Medicine. **Chapter 7:** Rapid Prototyping - 3D Bioprinting Orthopedics. **Chapter 8:** The Digital Revolution - 3D Bioprinting Bio-manufacturing. **Chapter 9:** Organ Printing - Discovering Novel Treatments and Drugs. **Chapter 10:** 3D Bioprinting Innovative Design.

Author

Dr. Sabrie Soloman

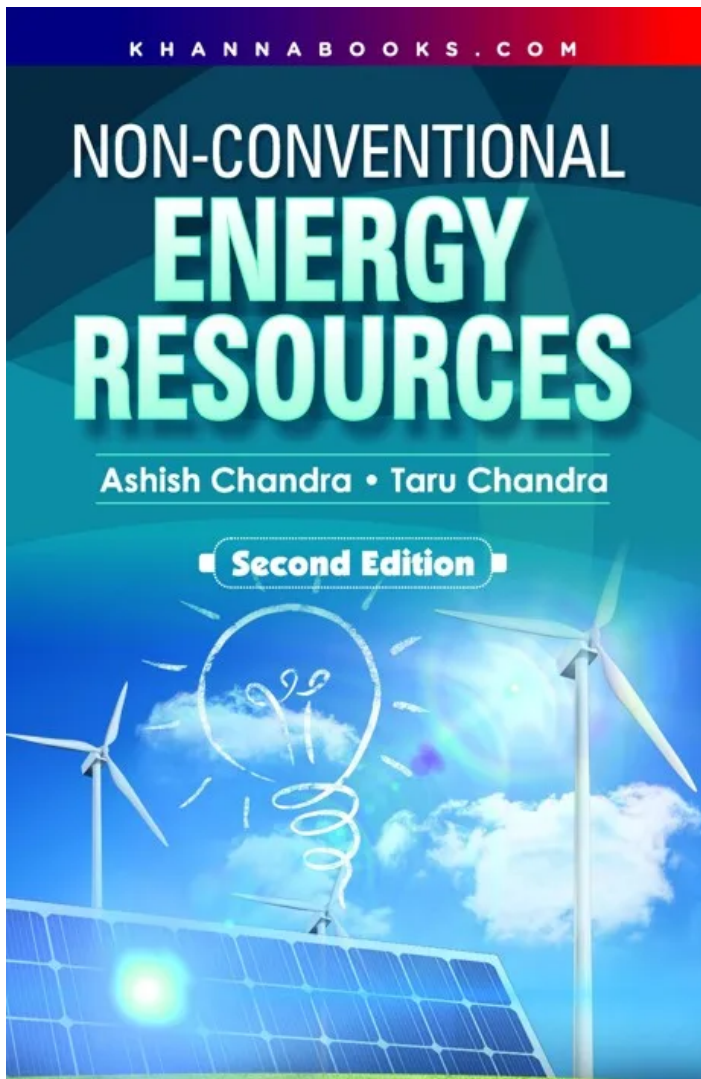
Dr. Sabrie Soloman, Ph.D., Sc.D., MBA, PE - He is the Chairman & CEO of American SensorRx, In, USA; Founder of Advanced Manufacturing Post Graduate Studies at Columbia University, USA; Professor of Advanced Technology at Columbia, where he lectures on Sensors & Control Systems in Manufacturing, Affordable 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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Non Conventional Energy Resources

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Product Description

This book covers all the details of various types of non conventional energy technologies such as solar energy, wind energy, biomass energy, tidal energy etc and their applications in a comprehensive manner. The book is designed to serve all the engineering students of undergraduate level.



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Table of Contents

Chapter 1: Introduction to Non-conventional Sources of Energy **Chapter 2:** Photovoltaic Solar Systems.. **Chapter 3:** Solar Radiations and its Measurement. **Chapter 4:** Solar Collectors. **Chapter 5:** Solar Thermal Energy Storage. **Chapter 6:** Solar Thermal Power. **Chapter 7:** Geothermal Energy. **Chapter 8:** Magneto-hydro-dynamic(MHD) Power Generation. **Chapter 9:** Fuel Cells. **Chapter 10:** Thermoelectric and Thermionic Conversions. **Chapter 11:** Wind Energy. **Chapter 12:** Biomass Energy. **Chapter 13:** Ocean Thermal Energy Conversion. **Chapter 14:** Tidal Energy. **Chapter 15:** Wave Energy. **Chapter 16:** Energy Conservation. **Chapter 17:** Other Applications of Solar Energy.

Author

Ashish Chandra



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