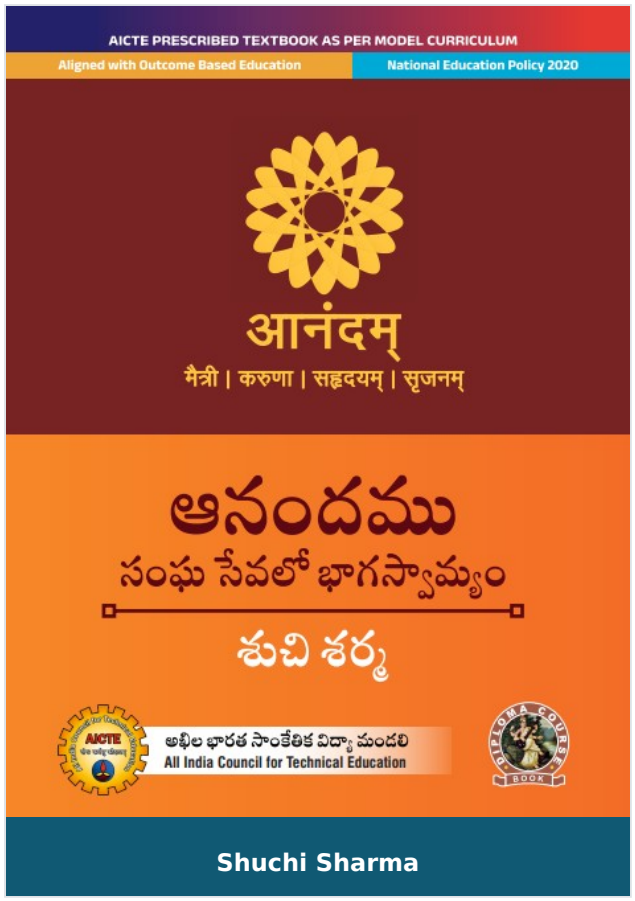

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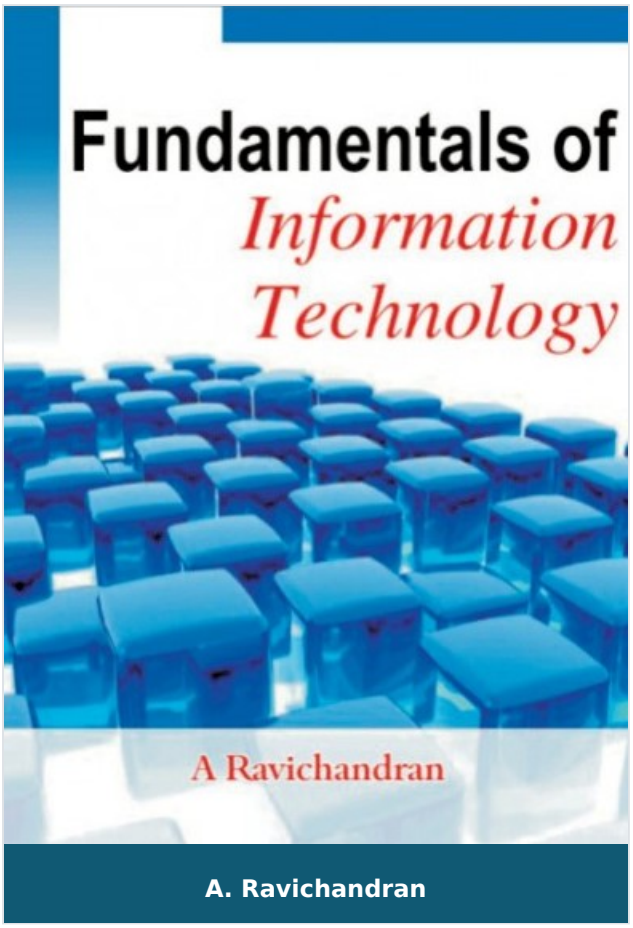

A. Ravichandran

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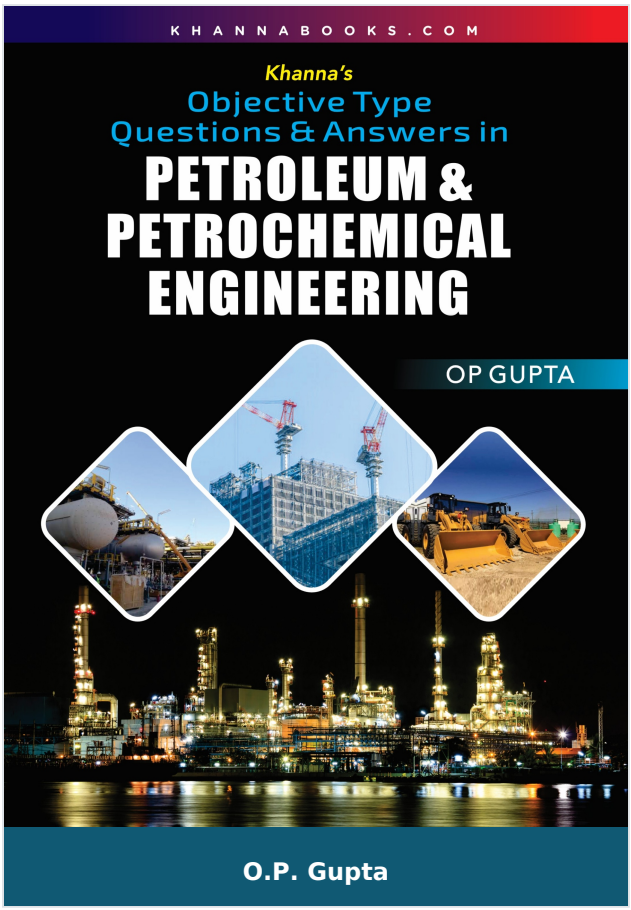

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Objective Type Questions and Answers in Petroleum & Petrochemical Engineering is a comprehensive academic resource designed to provide a deep and structured understanding of the oil and gas industry. Authored by Om Prakash Gupta, a seasoned expert with extensive industrial experience at Bokaro Steel Plant, this book serves as an essential guide for mastering the technical nuances of petroleum refining and petrochemical manufacturing. Its core theme revolves around bridging the gap between theoretical engineering principles and their practical applications in the energy sector.

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- Part-II: Petrochemical Engineering
- A. Objective Type Questions Answers in Petrochemical Engineering
- B. Short Answer Type Questions in Petrochemical Engineering
- C. Glossary Of Petrochemical Engineering

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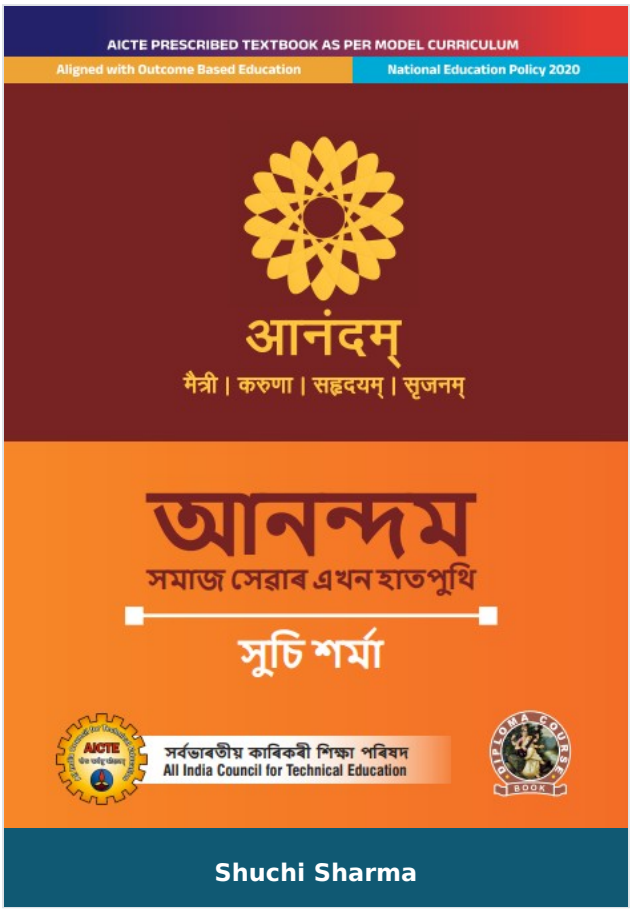

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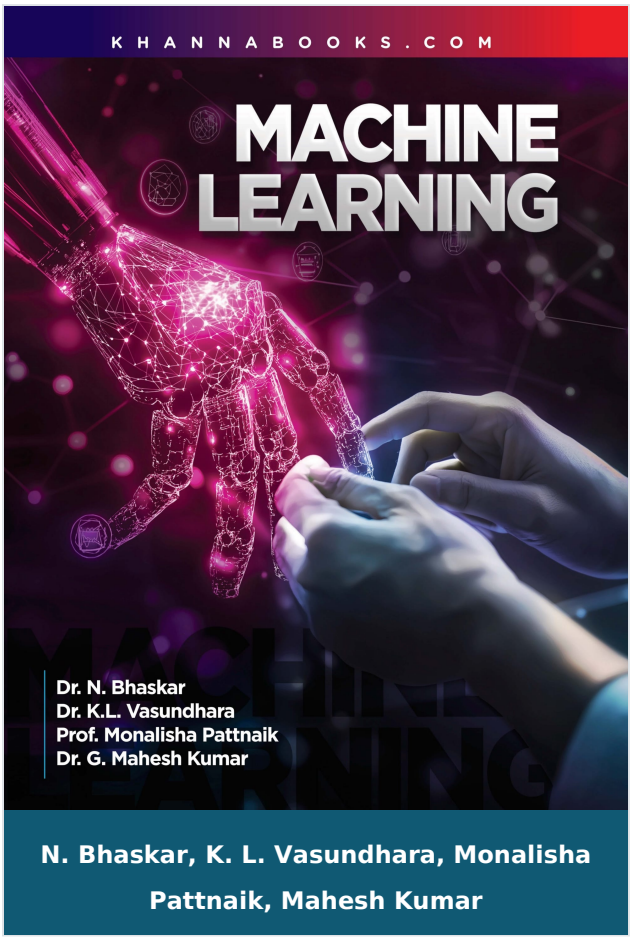

N. Bhaskar, K. L. Vasundhara, Monalisha Pattnaik, Mahesh Kumar

Machine Learning

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- Support Vector Machine.
- Support Vector Machine.
- Unsupervised Learning.
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Dr. N. Bhasker, Head & Assist. Professor, Dept. of Computer Science take pleasure to express my sincere thanks to my research supervisor Prof. MV Murthy, Former Head and BOS Chairman, Dept. of Mathematics and Computer Science, Osmania University, Hyderabad. It is my immense pleasure to associate with Prof. MV Ramana Murthy and his continuous guidance and task oriented mind setup to complete tis ask very soon. I am also thankful to Bhavan's Vivekananda College of Science Humanities and Commerce, Management, Principle-Dr. GSVRK Choudhary, Mrs. KVB Saraswathi Devi for given me the support and encouraging me to achieve goals successfully. I co-authored books on "Computer Fundamentals", Data Science with Machine Learning using R. Dr. K. L.

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Vasundhara, HOD & Assoc. Professor, Dept. of Mathematics, Thank my Mentor Prof. M. V. Ramana Murthy (Former Head and BOS Chairman, Dept. of Mathematics and Computer Science, OU, Hyderabad) for his guidance, time, ideas and help. I am greatly indebted to Sri Krishna Rao (Correspondent, Stanley College of Engineering and Technology for Women, Hyderabad) for his support. It is imperative on my behalf to remember my behold Mother Late Smt. K. Varalakshmi and my Father-in-Law Late Sri. Yerasuri Gopala Krishna Murthy for their divine blessings. Recipient of "UTTAMA ADYAPIKA AWARD" 2022, " JYSTA ACH ARNA AWARD" 2024 and authored 16 papers in various National & International Journals, Co- authored books on " Engineering Mathematics-IV", "Data Science with Machine Learning using R". AICTE nominated expert for Data Analytics and having 6 Patents. Prf. Monalisha Pattnaik, currently serving as the Head of Department in the Department of Statistics, at Sambalpur University holds her D.Litt. in Supply Chain Management from Sambalpur University and her Ph.D. in Operations Research from Utkal University. Additionally, she holds the position of Deputy Director of the Research and Development Cell, at Sambalpur University. Apart from that, she actively conducts training programs, and seminars, and delivers talks at Faculty Development Programmes conducted by HRDC. In association with the mentioned, she is an avid researcher and has devoted her time to urging young minds into research. Her dedication to research in evident from her extensive list of publications in reputed international and national journals. Prof. Pattnaik boasts an impressive publication record with over 50 papers indexed in SCOPUS and WoS. In addition to her articles, Prof. Pattnaik as authored eight books, edited five books of international repute, and contributed numerous book chapters, solidifying her expertise in her fields of interest. As a highly regarded reviewer for prestigious publishers such as Elslevier, Taylor & Fracies, IEEE Access, and Springer, she actively conrtibutes to the academic community. She has an active role to play as a Member of the Editorial Board of reputed international journals. She is also associated with independent projects conducted by both Govt. of India and Govt. of Odisha. Presently, she is associated with Sambalpur University funded project bases on Predictive

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Dr. N. Bhasker, Head & Assist. Professor, Dept. of Computer Science take pleasure to express my sincere thanks to my research supervisor Prof. MV Murthy, Former Head and BOS Chairman, Dept. of Mathematics and Computer Science, Osmania University, Hyderabad. It is my immense pleasure to associate with Prof. MV Ramana Murthy and his continuous guidance and task oriented mind setup to complete tis ask very soon. I am also thankful to Bhavan's Vivekananda College of Science Humanities and Commerce, Management, Principle-Dr. GSVRK Choudhary, Mrs. KVB Saraswathi Devi for given me the support and encouraging me to achieve goals successfully. I co-authored books on "Computer Fundamentals", Data Science with Machine Learning using R. Dr. K. L. Vasundhara, HOD & Assoc. Professor, Dept. of Mathematics, Thank my Mentor Prof. M. V. Ramana Murthy (Former Head and BOS Chairman, Dept. of Mathematics and Computer Science, OU, Hyderabad) for his guidance, time, ideas and help. I am greatly indebted to Sri Krishna Rao (Correspondent, Stanley College of Engineering and Technology for Women, Hyderabad) for his support. It is imperative on my behalf to remember my behold Mother Late Smt. K. Varalakshmi and my Father-in-Law Late Sri. Yerasuri Gopala Krishna Murthy for their divine blessings. Recipient of "UTTAMA ADYAPIKA AWARD" 2022, " JYSTA ACH ARNA AWARD" 2024 and authored 16 papers in various National & International Journals, Co- authored books on " Engineering Mathematics-IV", "Data Science with Machine Learning using R". AICTE nominated expert for Data Analytics and having 6 Patents. Prf. Monalisha Pattnaik, currently serving as the Head of Department in the Department of Statistics, at Sambalpur University holds her D.Litt. in Supply Chain

Management from Sambalpur University and her Ph.D. in Operations Research from Utkal University. Additionally, she holds the position of Deputy Director of the Research and Development Cell, at Sambalpur University. Apart from that, she actively conducts training programs, and seminars, and delivers talks at Faculty Development Programmes conducted by HRDC. In association with the mentioned, she is an avid researcher and has devoted her time to urging young minds into research. Her dedication to research in evident from her extensive list of publications in reputed international and national journals. Prof. Pattnaik boasts an impressive publication record with over 50 papers indexed in SCOPUS and WoS. In addition to her articles, Prof. Pattnaik as authored eight books, edited five books of international repute, and contributed numerous book chapters, solidifying her expertise in her fields of interest. As a highly regarded reviewer for prestigious publishers such as Elslevier, Taylor & Fracies, IEEE Access, and Springer, she actively conrtibutes to the academic community. She has an active role to play as a Member of the Editorial Board of reputed international journals. She is also associated with independent projects conducted by both Govt. of India and Govt. of Odisha. Presently, she is associated with Sambalpur University funded project bases on Predictive Analytics. In her 16 years of teaching experience, she has covered topics such as Artificial Intelligence, Bibliometrics, Advanced Operations Research, Financial Security Analysis, Co-integration, ARIMA Modelling, Production and Operations Management, Security Analysis and Portfolio Management, Logistics and Supply Chain Management, Optimization Techniques, Research Methodology, and Advanced Multivariate Analysis. Her name has been included as an active reviewer in the online library of reputed international journals such as British Academy of Management and John Wilely & Sons Ltd. One of her article published in the journal Statistics Optimization and Information Computing has been included in the CAM-Digest Magazine, China. She has been getting invitation for conducting track chair session of international conferences in South Korea, Bangkok and France(Online). Recently, she has development a new algorithm of Transportation Problem and it is published in a reputed journal of Log Forum, Poland. She

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and seminars, and delivers talks at Faculty Development Programmes conducted by HRDC. In association with the mentioned, she is an avid researcher and has devoted her time to urging young minds into research. Her dedication to research in evident from her extensive list of publications in reputed international and national journals. Prof. Pattnaik boasts an impressive publication record with over 50 papers indexed in SCOPUS and WoS. In addition to her articles, Prof. Pattnaik as authored eight books, edited five books of international repute, and contributed numerous book chapters, solidifying her expertise in her fields of interest. As a highly regarded reviewer for prestigious publishers such as Elslevier, Taylor & Fracies, IEEE Access, and Springer, she actively conrtibutes to the academic community. She has an active role to play as a Member of the Editorial Board of reputed international journals. She is also associated with independent projects conducted by both Govt. of India and Govt. of Odisha. Presently, she is associated with Sambalpur University funded project bases on Predictive Analytics. In her 16 years of teaching experience, she has covered topics such as Artificial Intelligence, Bibliometrics, Advanced Operations Research, Financial Security Analysis, Co-integration, ARIMA Modelling, Production and Operations Management, Security Analysis and Portfolio Management, Logistics and Supply Chain Management, Optimization Techniques, Research Methodology, and Advanced Multivariate Analysis. Her name has been included as an active reviewer in the online library of reputed international journals such as British Academy of Management and John Wilely & Sons Ltd. One of her article published in the journal Statistics Optimization and Information Computing has been included in the CAM-Digest Magazine, China. She has been getting invitation for conducting track chair session of international conferences in South Korea, Bangkok and France(Online). Recently, she has development a new algorithm of Transportation Problem and it is published in a reputed journal of Log Forum, Poland. She has published a case study which is available online in an academic website " studymode.com". Very recently, she has published three preprints on COVID-19 in the medRxiv org. USA, the preprint server health sciences, world reputed free online archive and distribution server for complete but preprints in the

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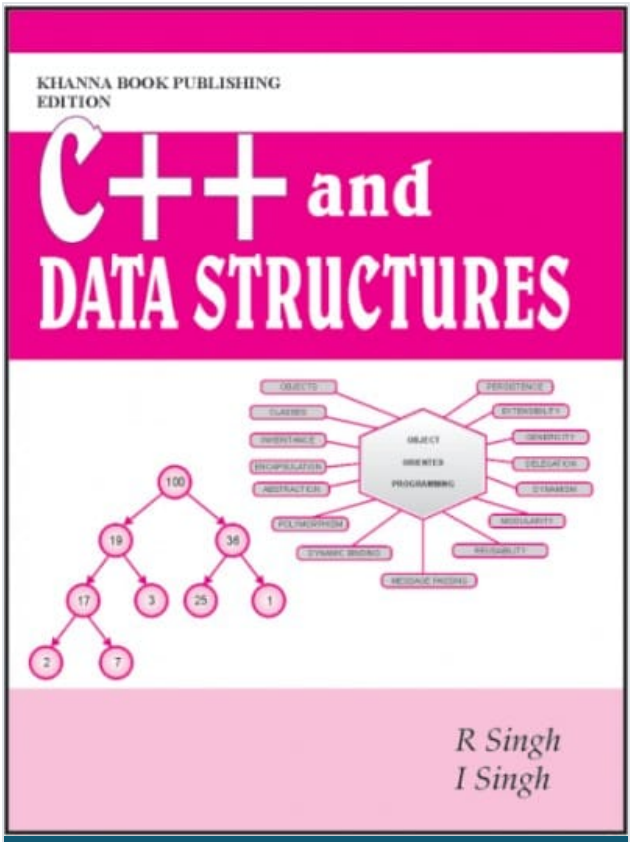

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Product Description

Written with the beginner in mind, this book provides an exceptionally clear and precise detail of C++ and data structures. Its approach is explanatory and language is lucid and communicable. Each and every concept described with the help of its pictorial representation, examples, and solved programming to have clear ideas. Each chapter contains programming problems, objective type questions, and exercises.

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Author

R. Singh

R. Singh "R Singh, MCA is equipped with an extraordinary calibre and appreciable academic potency. He has teaching experience of nearly twenty years. He has authored ten books on various complex topics of computer science. He has already submitted his Ph.D. thesis in the field of system simulation. His other areas of interest include Software Engineering, Data Structures and Information Systems. "

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S. Mangairkarasi, D. Jerusha, A. Muthulakshmi

Software Robot Design

Author :	S. Mangairkarasi, D. Jerusha, A. Muthulakshmi
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Product Description

In a world where robotics is advancing at an unprecedented pace, driven by advancements in artificial intelligence and machine learning, a strong grasp of the foundational tools is essential. SOFTWARE ROBOT DESIGN serves as a comprehensive and indispensable guide to the Robot Operating System (ROS), the versatile, open-source framework that has revolutionized the way intelligent and autonomous robots are designed, programmed, and deployed.

Authored by esteemed scholars—Dr. D. Jerusha, Dr. A. Muthulakshmi, and Dr. S. Mangairkarasi—this book equips readers with the practical and theoretical knowledge necessary to develop robust robotic systems, expertly bridging the gap between theoretical concepts and hands-on implementation. The book adopts a structured approach, meticulously covering the journey from setting up the essential Ubuntu/Linux environment and ROS basics to tackling complex subjects like sensor integration (LIDAR, cameras, IMUs), programming robotic actuators (motors, joints), and performing simulation in Gazebo.

Crucially, it delves into ROS Navigation, providing detailed instruction on robot localization using AMCL, map handling, and path planning using the move_base stack. Designed to be a valuable resource, this text is essential for students aspiring to enter the field, researchers exploring advanced applications, and industry professionals seeking to implement complex ROS-based solutions. The inclusion of practical examples, code snippets in C++ and Python, and dedicated chapters on interfacing ROS with embedded boards like Arduino and Raspberry Pi, ensures the knowledge is academically rigorous and directly aligned with industry demands.

Salient Features:

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• ROS Core Architecture: Provides in-depth coverage of fundamental ROS concepts, including Nodes, Topics, Services, and Messages, to establish a solid, modular foundation for distributed robot software development.

• Sensor-Actuator Programming: Offers practical guidance on interfacing and programming essential robotic sensors (LIDAR, IMU) and actuators (motors, joints), enabling precise control over a robot's perception and physical interaction.

• Real-World Navigation: Details the complete ROS Navigation Stack, including global and local path planning, AMCL localization, and costmap configuration for autonomous, obstacle-avoiding movement.

• Practical Coding Examples: Utilizes C++ and Python, the primary languages in robotics, to provide extensive code snippets and exercises, bridging theoretical understanding with hands-on development of ROS packages and nodes.

• Embedded System Interfacing: Includes dedicated chapters on integrating ROS with Arduino and Raspberry Pi, allowing developers to extend the framework to low-level hardware control and cost-effective robotic platforms.

• Simulation and Modeling: Teaches readers how to create robot models using the Unified Robot Description Format (URDF) and how to test and visualize their systems using Gazebo and RViz.

• Linux Environment Setup: Begins with a comprehensive review of Ubuntu Linux and essential Shell Commands, ensuring readers are proficient in the core operating environment required for all ROS development.

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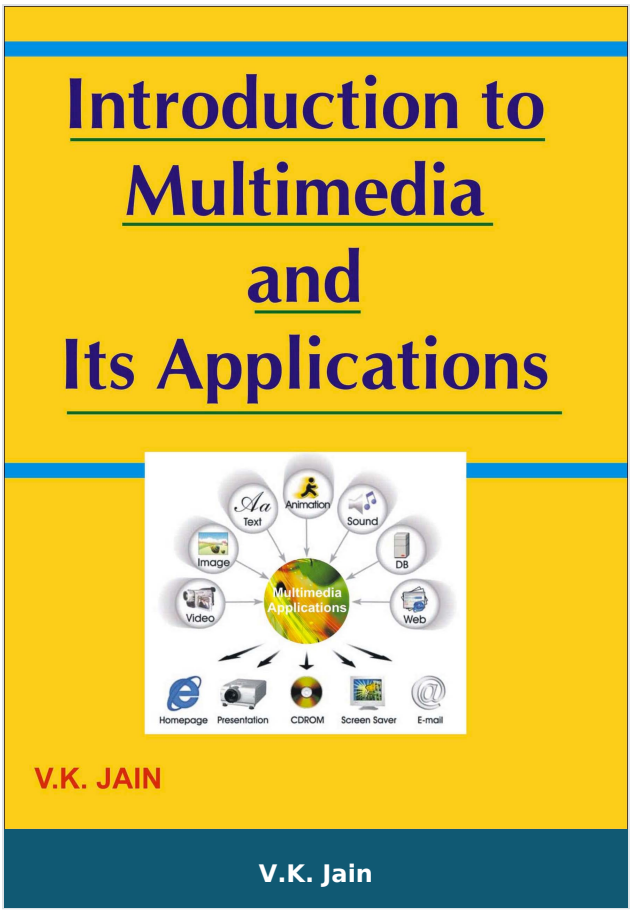

Introduction to Multimedia and its Applications

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Product Description

It is down-to-earth practical guidebook for beginners in the field of multimedia, Students who read portions of this book will gain a basic understanding of basic know-how for creation of multimedia and its applications, Multimedia developers, and other professionals, will find a variety of tutorials step wise step, Equally good for students, developers, teachers and any one with a basic background in computer, Science and windows applications will find the material in this book accessible without any additional preparation.

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- Adobe Flash Multimedia Authoring Software
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Author

V.K. Jain

Dr. V.K. Jain is a well known practical engineer who has authored more than 125 books on engineering, management and subjects related with computer science. He obtained degree in Electrical Engineering in 1966 from MACT (Maulana Azad College of Technology) Bhopal. He did M. Tech. in 1968 from MACT and HEL (Now Bharat Heavy Electricals) Bhopal in Design and Production of Heavy Electrical Equipments, an Industry Oriented course run under the sponsorship of UNESCO under Vikram University Ujjain in 1968. He was attached to Electronics Application Engineering Department of BHEL. He presented a thesis on ""Analysis of the performance of speed and excitation regulation System using fast acting integrator type AVR for a large Hydro-generator (15 MW). This was concerned with studying power system from the viewpoint of electronic control systems (based on Nyquist Criteria) through Analog and Digital Computer at one of the

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premier Institution of India IIT (Indian Institutue of Technology) Kanpur. He personally prepared digital computer program in FORTRAN IV as early as in year 1968 at IIT Kanpur and compiled it on IBM 7044 Main Frame Computer, The fastest Computer in India at that time. He joined CPWD as Electrical Engineer on 20.5.1968 on basis of All India Competitive Examination for Central Electrical Engineering Services (Now known as IES) through Union Public Service Commission of India and served CPWD for 35 years. After retirement he worked with M/s CP Kukreja as consultat engineer for nearly one and half years and at present working as Chief Consultant Engineer with M/s Hospitech Management Consultant Pvt. Limited WTC New Delhi and engaged in designing most modern E/M, Electronic services and IBMS in premier Medical colleges and Big Hospital systems including AIIMS at Raipur and Patna.

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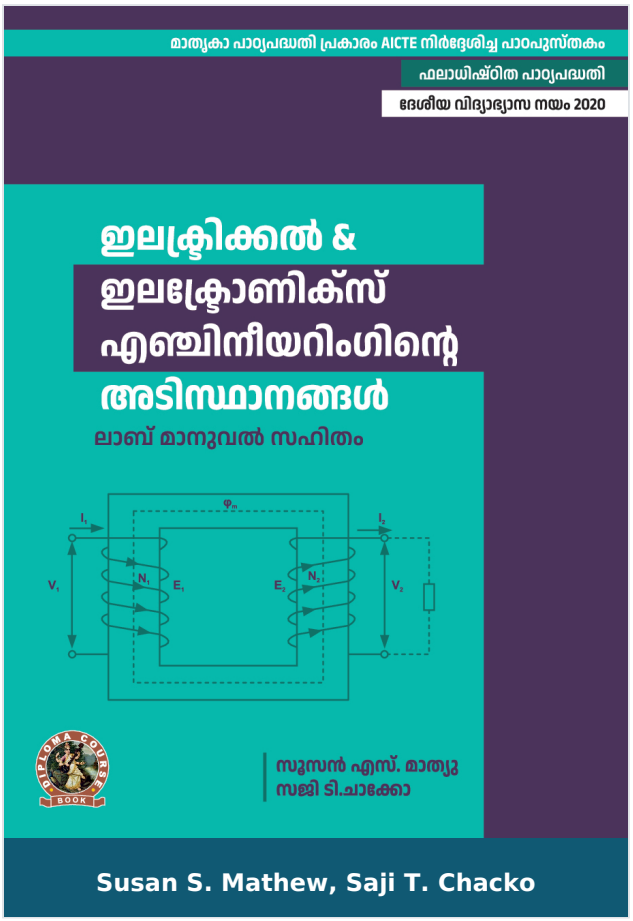

Fundamentals of Electrical and Electronics Engineering (With lab Manual)

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Product Description

“Fundamentals of Electrical & Electronics Engineering” 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.

Books covers six topics- Overview of Electronics Components and Signals. Overview of Analog Circuits. Overview of Digital Electronics, Electric and magnetic Circuits, A.C. Circuits and Transformer and Machines. Each topic is written is easy and lucid manner. A set of exercises at the end of each units to test the student’s comprehension is provided.

Some salient features of the book:

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

2. The practical applications of the topics are discussed along with micro projects and activities for generating further curiosity as well as improving problem solving capacity.

3. Book provides lots of vital facts, concepts, principles and other interesting information.

4. QR Codes of video resources and websites to enhance use of ICT for relevant supportive knowledge have been provided.

5. Student and teacher centric course materials included in book in balanced manner.

l6. Figures, tables, equations and comparative charts are inserted to improve clarity of the topics.

7. Objective questions and subjective questions are given for practices of students at the end of each unit.

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Author

Susan S. Mathew

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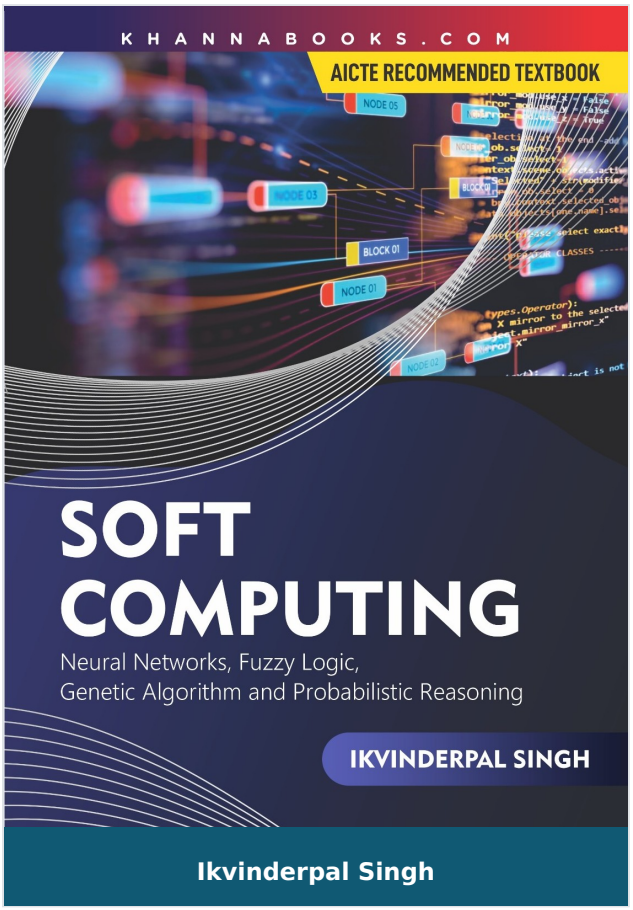

Soft Computing

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Product Description

This book is meant for a wide range of readers, especially college and university students wishing to learn basic as well as advanced processes and techniques in Soft Computing. It can also meant for Programmers who may be involved in programming based on the soft computing applications. Modern aspects of soft computing have been introduced from the first principles and discussed in an easy manner, So that a beginner can grasp the concept of neural networks fuzzy, genetic algorithm and probabilistic reasoning, each chapter contains solved example problems and exercise problems.

SALIENT FEATURES

- Detailed explanation of soft computing concepts
- Extensive coverage of fundamental concepts of Artificial neural network
- Present architecture and algorithm of every net in enough detail
- Provides examples of simple applications
- Gives mathematical development when it provides a guide to proper implementation of net
- Covers all supervised and unsupervised learning methods
- Discusses on the introduction to classical sets and fuzzy sets
- Fundamental idea on classical relations and fuzzy arithmetic explains in a lucid manner
- Detailed explanation of fuzzy rules is given
- Gives the architecture, operation and various applications of fuzzy logic systems
- Concepts of neuro-fuzzy and genetic algorithm are included
- Detailed analysis of each and every type of probability is explained with the help of examples
- Demonstrates the concept of fuzzy logic and probability.

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This book will be useful for student of BE (Computer/Electronics), B. Tech, ME(Computer/Electronics), M. Tech, MCA, BCA, M.Sc., B.Sc., and also to students pursuing A/B/C-level course of DOEACC.

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- Fuzzy Relations, Fuzzy Graphs and Fuzzy Arithmetic
- Fuzzy If-then Rules
- Applications of Fuzzy Logic
- Neuro-fuzzy Systems
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