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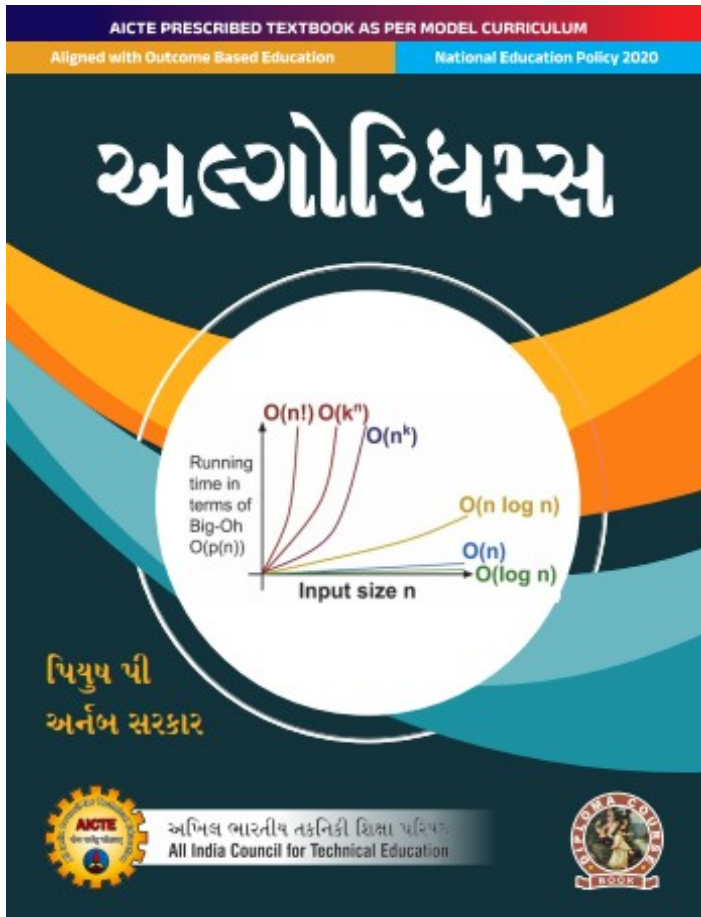
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Algorithms

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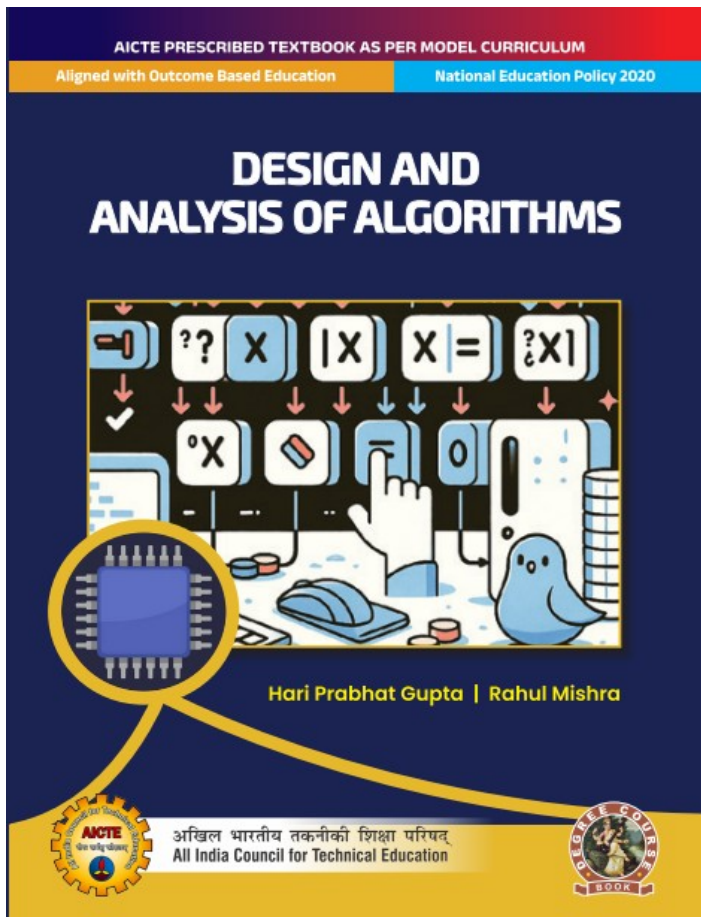
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Design and Analysis of Algorithms

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Product Description

Design and Analysis of Algorithms This book offers an in-depth exploration of designing and analysing algorithms. It covers topics such as algorithmic analysis, design principles, theoretical proofs, and practical applications. The content includes a logical example explaining the concepts, accompanied by a diverse range of solved and unsolved problems. Each problem is accompanied by step-by-step solutions, providing readers with a comprehensive understanding of algorithmic design and analysis. With its systematic approach, programming-based solutions, and thorough examples, this book serves as an ideal resource for those curious to learn basic to high level concept of algorithm design. **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 of him/ her after completing that unit.
- Book provides lots of recent information, interesting facts, logical examples, and solved programming exercises. Theorems and their proofs are added to provide detailed insight of analysis.
- Student and teacher centric subject material included in book in balanced and chronological manner.
- Figures, tables, and image-based elaborate examples are inserted to improve clarity of the topics. Salient Features:
- Short and long answer questions are given for practice of students after every chapter for practice of students after every chapter.
- Solved and Unsolved programming exercises are included in the appendix of the book.
- QR Code at the start of every chapter provide convenient access to electronic resources, including solutions to programming problems, discussions on key concepts, and project topics for students



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- Graph and tree Algorithms
- Brute-Force Methodology
- Greedy Algorithms
- Dynamic Programming
- Divide-and-Conquer
- NP-Completeness
- Advanced Topics in Algorithms

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Author

Dr. Hari Prabhat Gupta, Ph.D. Associate Professor, Dept. of Computer Science & Engineering, IIT (BHU) Varanasi, India **Dr. Rahul Mishra**, Ph.D. Assistant Professor, Dept. of Computer Science & Engineering, IIT Patna, India





Applied Chemistry (with Lab Manual)

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Product Description

This textbook on “Applied Chemistry” is developed as per AICTE model curriculum, 2018, for compulsory course on Applied Chemistry of first years Diploma Programming in Engineering and Technology. Atomic Structure, Chemical Bonding & Solution, Water, Engineering Materials, Chemistry of fuels & Lubricants and Electrochemistry are the five units of this book, comprising of both practical and theory. Some salient features of the book:

1. Course Outcomes and Unit Outcomes are written specifically and are mapped with programming Outcomes.
2. Utmost care has been taken to amalgamate the philosophy of outcome-based education.
3. The structure of the textbook is comprehensive, where practical exercises are an integral part of each unit.
4. The text is presented in a very simple way with illustrations, examples, tables, flow chart, self-assessment questions and their solutions.
5. Micro projects, points/issue for the creative inquisitiveness & curiosity, know more, video links, case study and summary points are an integral part of each unit to facilitate the students to develop the attitude of scientific inquiry, investigate the cause-and-effect relationship, systematic, scientific & logical thinking, ability to observe, analysis and interpret.
6. To meet the requirement of outcome-based education (OBE) and outcome-based assessment (OBA), criterion referenced testing (CRT) has been used as an integral part of assessment in each practical.
7. Sample QR codes have been provided in each unit on some topics/subtopics for supplementary reading and reinforcing the learning.

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Authors

Anju Rawlley

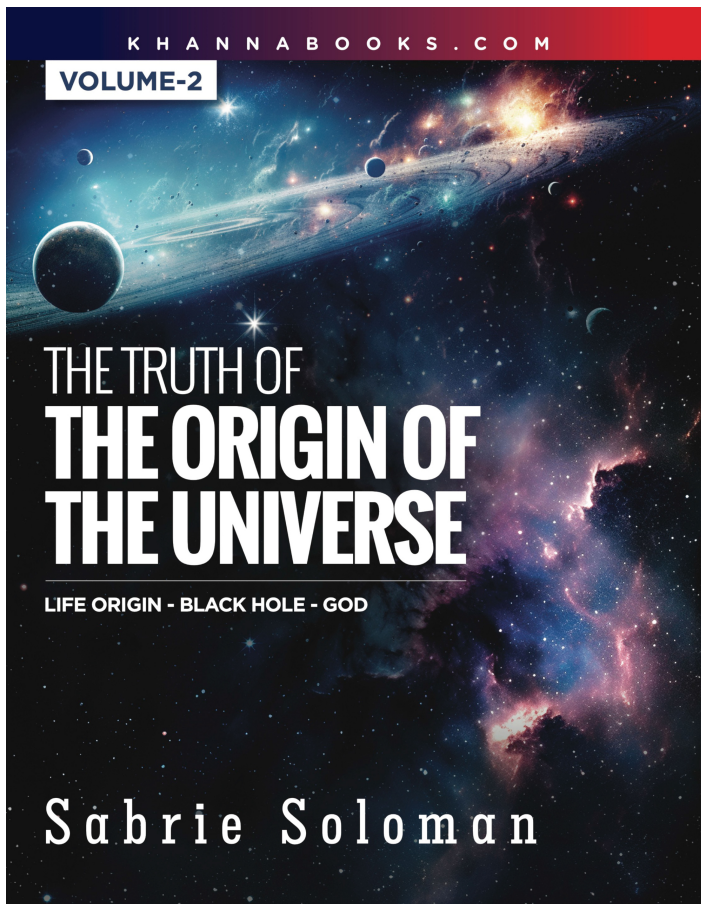
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The Truth of The Origin of The Universe (Life Origin - Black Hole-God) Volume-2

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Product Description

The Origin of Life: God? - Black Hole? Or Evolution? The origins of life, the mysterious nature of black holes, and the idea of a higher power or God have long fascinated humans. The question of how life originated on Earth has puzzled scientists for centuries. These topics have sparked numerous debates. Discussions, and theories among theologians, and philosophers alike. We attempt to unravel the mysteries of the universe. We will delve in to the creation, the scientific and the philosophical perspectives on the origins of life, the enigmatic nature of black holes, and the fact of the creator. While each of these subjects is distinct in their own right, there are interesting connections that can be drawn among them. Black holes, on the other hand, are some of the most enigmatic objects in the universe. These dense regions of space time have such strong gravitational pulls that not even light can escape them. Scientists have long been intrigued by black holes and continue to study them to unlock their secrets. While black holes are thought to form from the collapse of massive stars, there is still much that remains unknown about these mysterious objects. The existence of God is a topic that has been debated for centuries. The questions of whether a higher power, or deity, exists has divided people for millennia. Some argue that the complexity and beauty of the universe point to an intelligent designer, while others believe that the laws of nature are sufficient to explain the workings of the cosmos. The existence of God is a deeply personal and philosophical question that continues to captivate believers and skeptics alike. Chapters Covered in This Book: 1. Intelligent Design in Everyday Reasoning. 2. The Blackhole. 3. The Universe is Finely Tuned for Life. 4. Molecular Intelligent Design. 5. Our Milky way Galaxy. 6. Divine Design.

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Authors

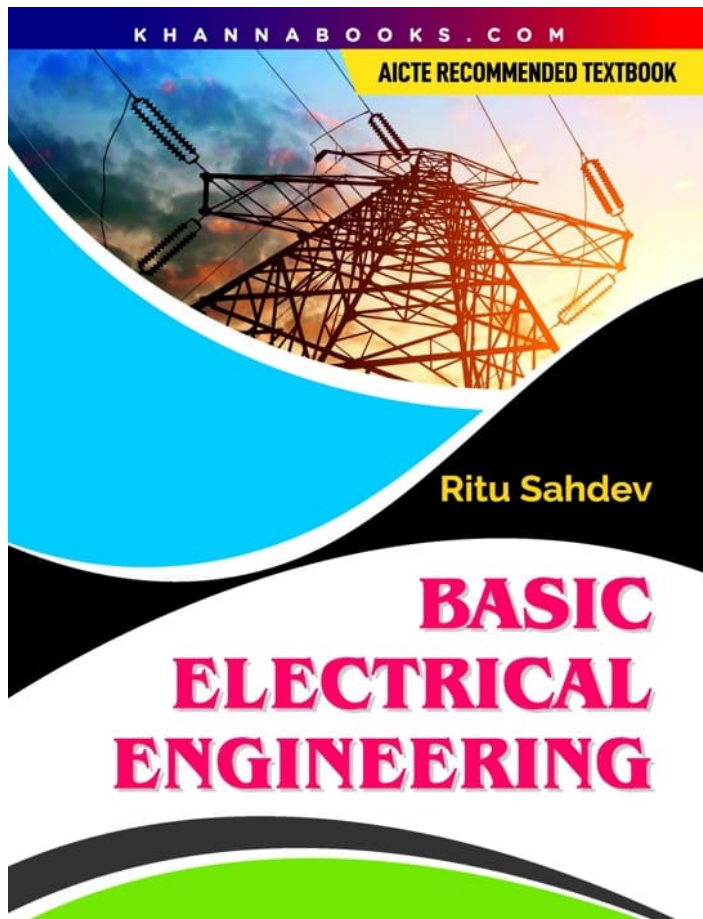
Dr. Sabrie Soloman, Ph.D, Sc.D., MBA, PE- he is the Chairman & CEO of American Senso Rx, Inc., USA; Founder of Advanced manufacturing Technology Post Graduate Studies at Columbia University, NY, USA; Professor of Advanced Technology at Columbia University Dr. Soloman Authored numbers of technical books published and translated worldwide: Sensors Handbook (2 Editions, Sensors and Control Systems in Manufacturing (2 edition); Affordable Automation; introduction to Electromechanical Engineering; Modern Welding Technology; 3D Printing Technology ; 3D Bioprinting Technology & Design to name a few. Dr. Soloman holds numerous patents, Technical Awards, and several US Product Registrations. 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 continue to be instrumental in developing and implementing several industrial and modernization programs through the United Nations to Europe, Asia and African Countries. He is the first to introduce and implement unmanned flexible synchronous/asynchronous manufacturing systems in the microelectronic and the meat industries, and the first to incorporate advanced vision technology in wide array of robot/ microrobot manipulators. Dr. Soloman was selected to deliver the Us presidential closing address “innovative Remote Sensors Technology”, at the universal Design Conference”, New York, USA. Dr. Soloman was the President of the International Christian Union at New Castle-Upon-Tyne University. He debated the “Origin of the Universe” before numerous attendees presenting his case against intellectuals and proponents of Big Bang’s Singularity in Great Britain.



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Basic Electrical Engineering

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Product Description

Although, a number of books, written by various authors on the subject are available in the market. However, the author feels that this book will facilitate the students not only to prepare for the regular University examinations. The book is also quite suitable for the professionals since many live examples have been incorporated. The book has the following exclusive features: (i) The Learning objectives of each chapter have been incorporated in the beginning to develop curiosity among the students. (ii) Practice exercise have been added in all the chapters after suitable intervals to impart necessary practice. (iii) At the end of each chapter, its summary highlights are given. This will enable the students to revise the subject matter quickly. (iv) A number of short answer and test questions have been given at the end of each chapter. While answering these questions, the readers will have to think deep into the subject matter. This will improve their analytical approach. Consequently, the students/readers will be in position to respond in a better way while appearing before the selection board or to deal with practical problems. (v) A sufficient number of objective type questions (MCQ) have been given at the end of each chapter. These questions will help the students to perform better in the competitive examinations. (vi) The subject matter is treated in a simple and lucid manner so that an average student can understand the subject easily. Although, typical mathematical expressions are avoided but simple mathematical relations are used for better explanation and understanding.

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Author

Ritu Sahdev



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