

Refrigeration and Air Conditioning

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Product Description

Refrigeration and Air-Conditioning is a compulsory subject for the B Tech Mechanical Engineering and other allied branches. It is offered in the final year of the degree program. it is also taught to Diploma students. With the global problem of environment pollution, warming and ozone layer depletion, the importance of this subject has increased manifold in the engineering education The subject is also important from the pint of view of job opportunities as it is an essential part of any competitive examination.

Many books on this subject are available in the market but most of these books do not cover the various aspects of this subject. The author has a vast experience of teaching and administration in reputed institution and Universities of the country. The author has also long experience of association with the National level examining bodies like UPSC and State Level Public Service Commissions to conduct examinations for National and State Services. This vast experience of the author has been utilized in writing the book.

The book contains seventeen chapters on : Basic Concepts of Thermodynamics, Fundamentals of Refrigeration, Air Refrigeration Cycles, Aircraft Refrigeration Systems, Simple Vapour Compression Systems, Multi - Stage Vapour Compression Systems, Vapour Absorption refrigeration Systems, Refrigerants, Refrigeration Equipment, Cryogenics, Steam Jet Refrigeration System, Psychometric. Comfort Air-Conditioning, Cooling and Heating Load Estimation, Ducts Design, Fans, and Applications of Refrigeration and Air - Conditioning.

A large number of Multiple - Choice Questions from Gate and Civil Services Examinations have been given in the form of appendices. Useful Tables and Charts have been given at the end of the book. Numerical Problems from Indian Engineering Services Examinations conducted by the UPSC are given chapter wise.

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- Steam Jet Refrigeration
- Psychrometry
- Comfort Air-Conditioning
- Cooling and Heating Load Estimation
- Ducts Design
- Fans
- Applications of Refrigeration And Air-Conditioning

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Dr. Sadhu Singh is a retired professor of Mechanical Engineering of Govind Ballabh Pant university of Agriculture & Technology, Pantnagar. He graduated in Mechanical Engineering with Hons, from Punjab University, Chandigarh, M.Sc. (Mechanical Design & Production Engineering) and Ph.D. from Kurukshetra University, Kurukshetra. His teaching

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experience spans 15 years at Regional Engineering College (now NIT), Kurukshetra and 19 years at Pantnagar University. He has been Professor & Head, Mechanical Engineering Departmentand Dean, Faculty of Engineering & Technology at Pantnagar. He has been Director (Colleges). Punjab Technical University, Jalandhar.

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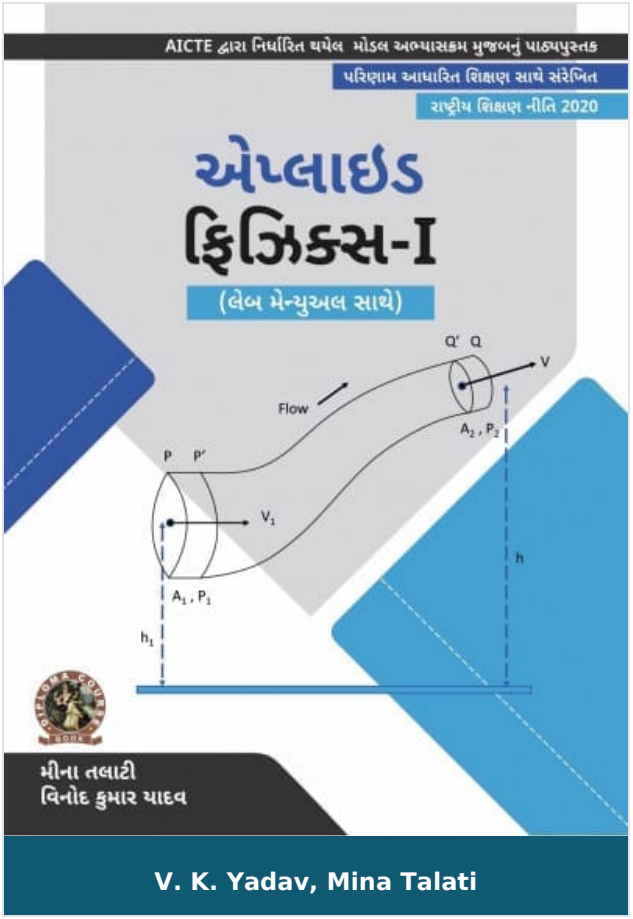

Applied Physics-I (with Lab Manual)

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Product Description

“Applied Physic-l” is a compulsory paper for the first year Diploma course in Engineering & Technology. Syllabus of this books is strictly aligned as per model curriculum of AICTE, and academic content is amalgamated with the concepts of outcome-based education. Book covers six topics- Physical World, Units and Measurements; Force and Motion; Work, Power and Energy; Rotational Motion; Properties of Matter; Heat and Thermometry. 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 Outcome, Programs Outcomes and Unit Outcomes.

2. Book provides lots of interested facts, QR Code for E-resources, QR Code for use of ICT etc.

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

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

5. Short questions, objective questions and long answer exercises of different difficulty levels are given for practice after every chapter.

6. Solved numerical examples are provided with systematic steps in each chapter followed by numerical exercises with hints.

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- Force and Motion
- Work, Power and energy
- Rotational Motion
- Properties of Matter
- heat and Thermometry
- Annexes
- Appendices
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Author

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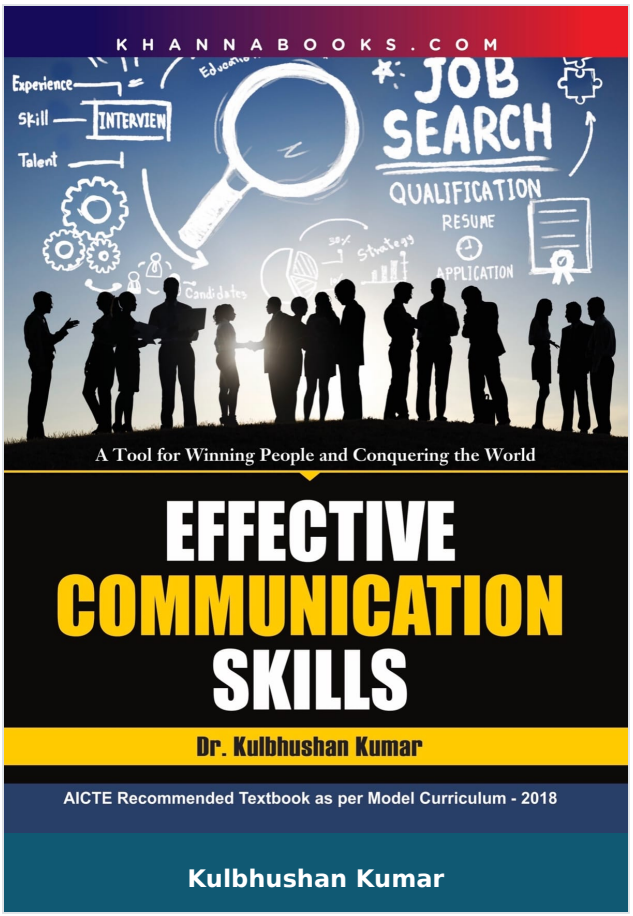

Effective Communication Skills

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Product Description

The Books in your hand is a modest attempt to discuss the kaleidoscopic nature and paramount international significance of English Language and of Communication Skills. The purpose of the book is to familiarize its readers with different aspects and genre of business communication. So, to solve the purpose, the book has been divided into fifteen chapters.

· Introduction to Communication Skills

· Types of Communication

· Listening Skills

· Speaking Skills

· Reading Skills

· Writing Skills

· Oral Presentation Skills

· Writing Business Letter

· Report, Tenders, Business Proposal,

· Memorandum

· Resume Writing

· Group Discussion

· Conducting Meetings Telephone Skills

· Grammar

· Interview Skills

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The purpose of the book is empower students with the language and life skills they need to carry out their career goals. The book provides ample opportunities for students to build development and practice the language in real-life scenarios. Its integrated skills approach develops the students' self-confidence to survive and succeed in professional and social encounters within the English speaking global community. Emphasis is on developing the life skills students' need to deal with situations that they will encounter in the job market. Therefore, the book provides students with the language and life skills necessary to pursue business related career goals.

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- Types of Communication
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- Group Discussion
- Chapter-12. Conducting Meeting
- Chapter-13. Telephone Skills
- Chapter-14. Grammar
- Chapter-15. Interview Skills

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Kulbhushan Kumar

Kulbhushan Kumar Former Head, Department of English and Communication Studies and Former Chief Editor and Coordinator. EU Voice University Magazine, Eternal University, Baru Sahib (Himachal Pradesh).

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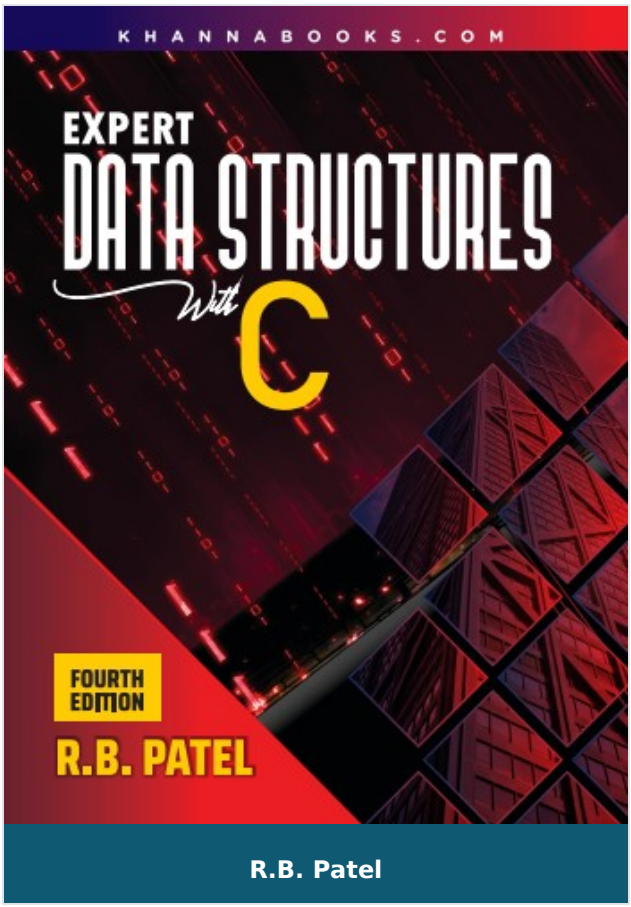

R.B. Patel

Expert Data Structures with C

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Product Description

This book starts with the fundamentals of data structures and finally lead to the much detailed discussion on the subject. The very first chapter introduces the readers with elementary concepts of C as type conversions, structures, pointers, dynamic memory management, functions, flow-chart, algorithm and fundamental of data structures. This textbook covers the syllabus of Semester College course on data structures. It provides both a strong theoretical base in data structures and an advanced approach to their representation in C. The text is useful to C professionals and programmers, as well as students of any branch of Engineering of graduate and postgraduate courses. The data structures are presented with in the context of complete working programs that have been tested both on a UNIX system and a personal computer using Turbo-C++, Compiler. The code is developed in a top-down fashion, typically with the low-level data structures implementation following the high-level application code. This approach foster good programming habits and makes subject matter more interesting. The book has three goals- to develop a consistent programming methodology, to develop data structures access techniques and to introduce algorithms. The bulk of the text is developed to make a strong hold on data structures. Programming style and development methodology are introduced and its applications are presented. This has the advantage of allowing the reader to concentrate on the data structures, while illustrating how good practices make programming easier.

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Author

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R.B. Patel Prof. Ram Bahadur Patel, Professor, Department of Computer Science and Engineering, Chandigarh College of Engineering and Technology, U. T. Administration Chandigarh, earlier he was Professor at NIT Uttarakhand, graduated from Madan Mohan Malaviya Engineering College Gorakhpur in Computer Engineering in the year 1991. He did M.S. from BITS Pilani in the year 1996. He obtained his Ph.D. from the Indian Institute of Technology, Roorkee in the field of Distributed Computing and PDF in Reliable Computing from Athens Greece in the year 2005. He has supervised 18 PhD thesis and 42 M. Tech. dissertation. He has 4 Patents (1 US and 3 Indian) to his credit. He has published more than 190 research paper in International/National Journals and Conferences. He has

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organized 7 International Conferences/Seminars. He has edited 5 Scopus indexed Journal/Proceedings of National and International publishers, viz. Springer Verlag, American Institute of Physics etc. He has authored 7 Books on Data Structures, Automata Theory, etc.

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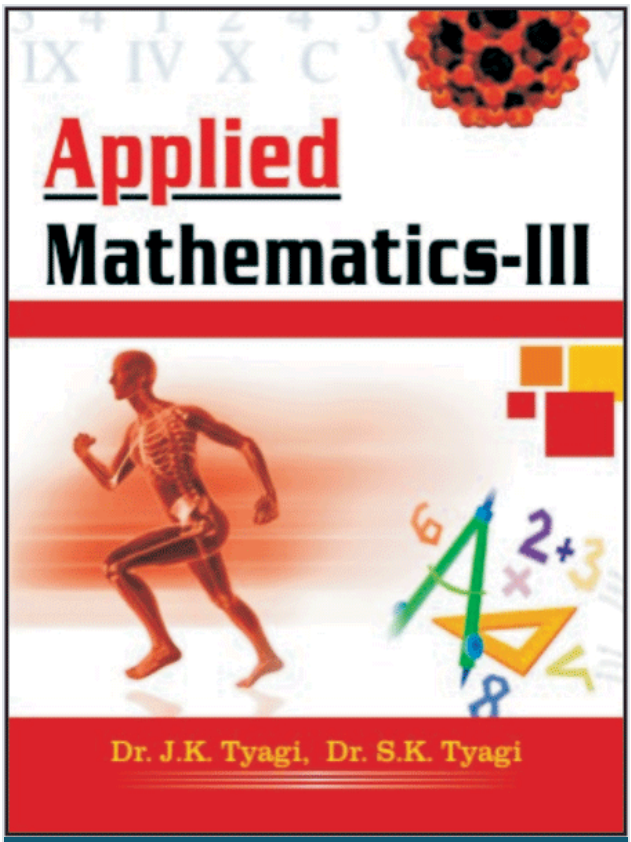

J.K. Tyagi, S.K. Tyagi

Applied Mathematics–III

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Product Description

The language is very simple and easily understandable. The approach is to communicate the practical aspects of mathematics in a way that drives out the common fear of learning any mathematical subject. A large number of solved and unsolved problems have been included. Topics are followed by figures and tables. The notations and terminology have been clearly explained wherever desirable. In each chapter, all concepts and definitions have been discussed in details with suitable examples.

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- Linear Programming

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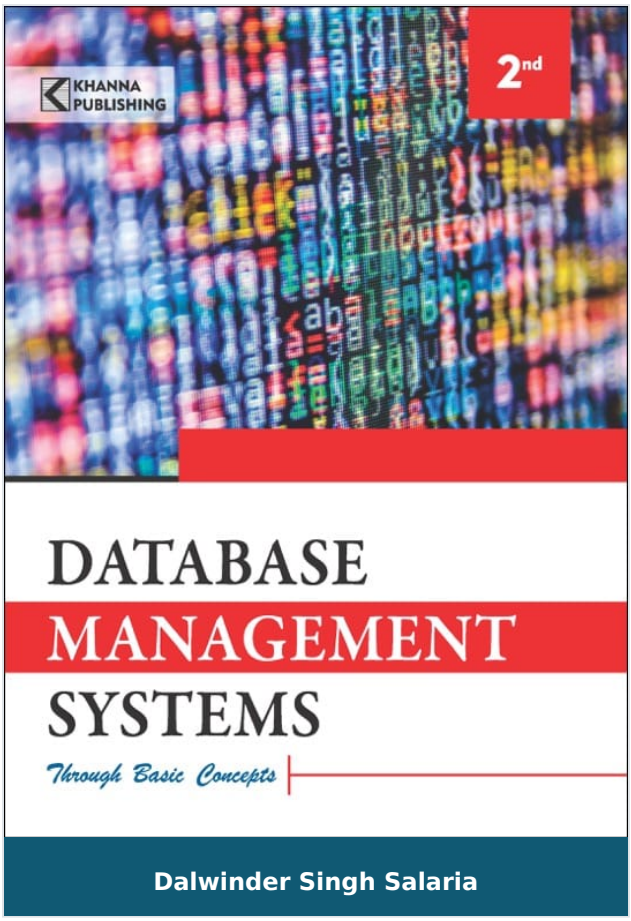

Database Management Systems

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Product Description

This book is specially designed to serve as first level textbook on the subject of Database Management Systems. The Subject of DBMS is of prime importance foe the students of Computer Science and IT. It is of practical nature and requires thorough understanding of basics and concepts of the subject before putting them into practice. The best efforts are put in to the material in an illustrative manner that is easy to red and understand.

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- Distributed Database
- New Application

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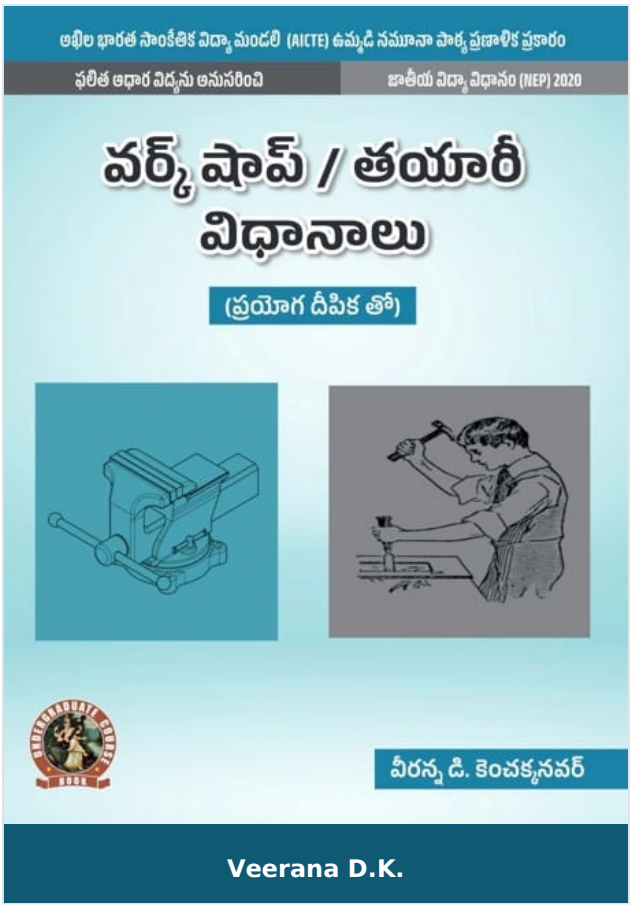

Workshop / Manufacturing Practices

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Product Description

The textbook on “Workshop/ Manufacturing Practices” is designed to cater the needs of young minds of 21 century. The AICTE model curriculum and National Education Policy has driven a new wave in the technical education. The textbook is designed not only to cater the need of the syllabus but also to look things in a different perspective. The Workshop is the place where the core of learning about different materials, equipment, tools and techniques takes place. Basically the workshop used to prepare the small components by hand tools. Sometimes they may be parts of the large machines or may may be parts for replacement/repairs. In this text book an attempt has been made to connect the conventional tools usage to advanced machine tools usage. The relevant practical examples are quoted to make the readers more comfortable with product and processes. The blooms taxonomy is fallowed in construction of each chapters and exercises. The objective and multiple questions with higher order thinking may help the readers to not only to face the semester end exam even they may help in competitive and other examinations.

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9. Laboratory experiments and models

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- List of Tables
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- Guidelines for Students
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- Manufacturing Methods.
- CNC Machining, Additive manufacturing, Fitting operations & power tools.
- Electrical & Electronic.
- Carpentry, Plastic molding, glass cutting.
- Metal casting, welding (arc welding & gas welding), brazing.
- Part- B: Workshop Practice Laboratory
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- References

Author

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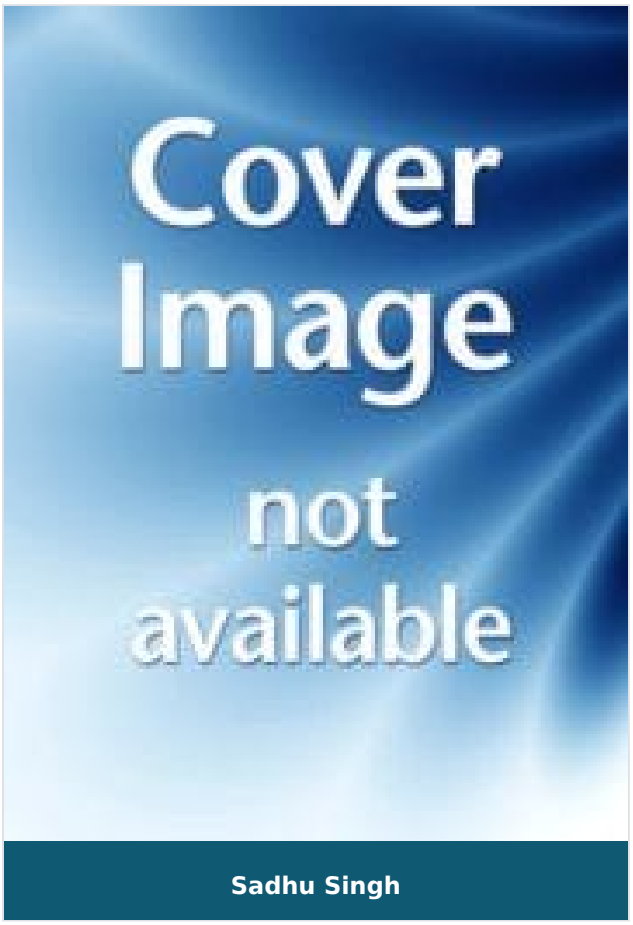

Khanna's Conventional & Objective Type Questions & Answers in Mechanical Engineering

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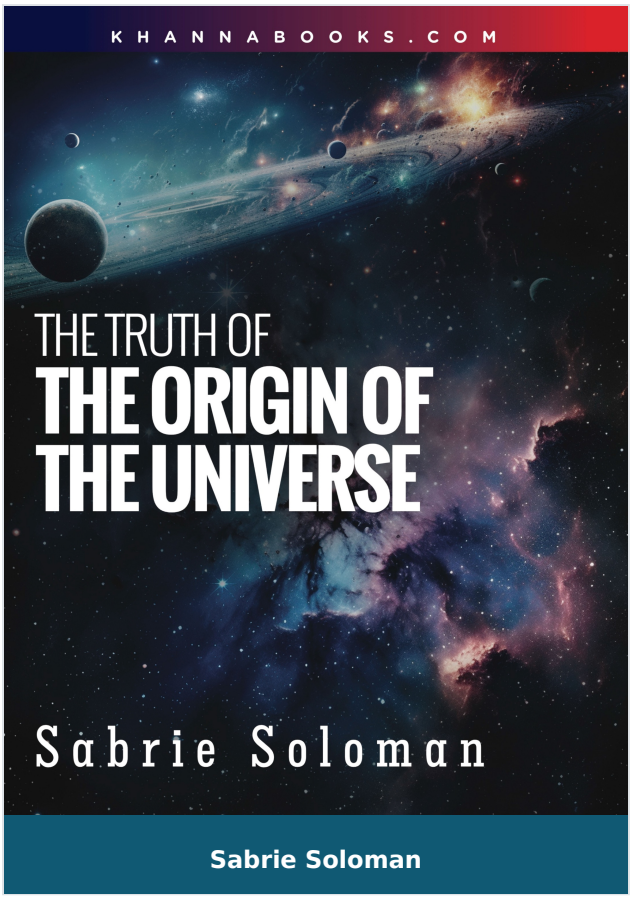

The Truth of The Origin of The Universe

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Product Description

In a world filled with scientific explanation and theories, it can be easy to lose sight of the ultimate truth of our existence. The truth is that the universe, with all its intricate complexities, did not come into being by mere chance or a random explosion. It was carefully designed and orchestrated by a higher power, a Creator who holds everything together.

When we look up at the night sky and see the countless stars and galaxies stretching out into infinity, we cannot help but be in awe of the sheer magnitude and beauty of it all. The heavens declare the glory of God, as it says in the Bible, and remind us of the greatness of the one who made it all.

The theory of the Big Bang, which posits that universe began as a singular point and expanded over billions of years, is a flawed is a explanation for the origin of the universe. It fails to account for the intricate design and order that we see in the cosmos, as well as the existence of life on earth. The marvel of our planet Earth, with its perfect conditions for sustaining life, points to a Creator who had a purpose and a plan in mind when he made it. The countless galaxies and stars that we observe in the universe are a testament to the power and creativity of God. They show us that we are part of a vast and wondrous creation, one that was made by an intelligent designer who had a vision for it all.

The theory of evolution, put forth by Charles by Charles Darwin, is another flawed explanation for the diversity of life on earth. It fails on earth it fails to explain the intricate complexities of living organisms and their unique design, as well as the existence of the human soul. It is clear that we are not the product of blind chance or random mutations, but rather the handiwork of a loving and powerful Creator.

"The truth of the origin of the universe" points to a creator who holds everything together and has a purpose and a plan for it all. God stretches out the heavens and allows light to

reach us here on earth, showing us his care and provision for his creation. We are not the product of blind evolution, but rather the cherished creation of a loving god who made us in his image. Let us never forget the marvel and wonder of the universe and the greatness of the one who made it all.

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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

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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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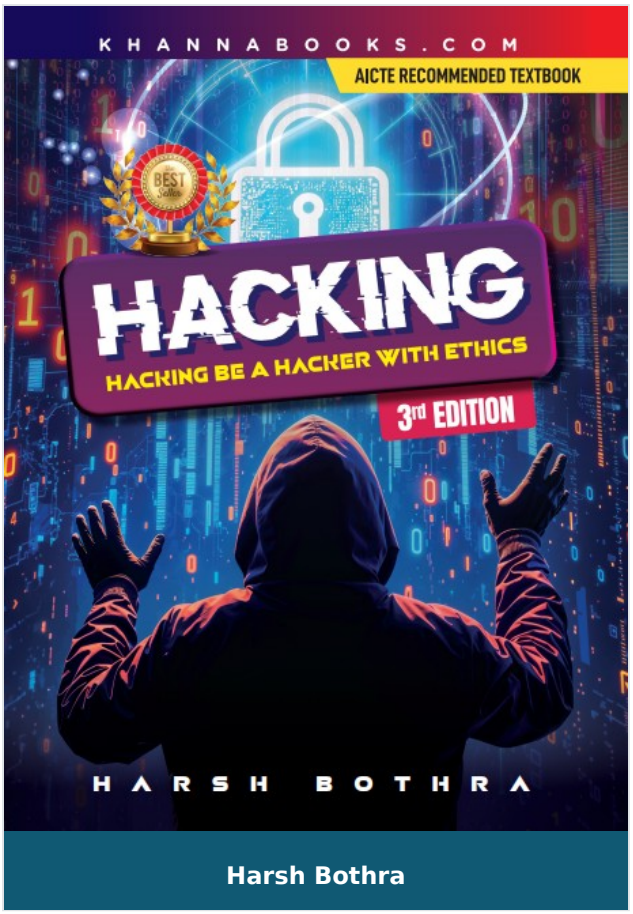

Harsh Bothra

Hacking (Hacking Be A Hacker With Ethics)

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Product Description

In today's time where geographical boundaries are easily covered by Internet and computers with click of a button, there are lies risks within the ecosystem. Hacking somebody's details could lead to damages and losses.

In this book we have tried to provide a glimpse into the Technology world of the common terms and procedures used by the hackers to intrude into the system. It is a humble effort to make students understand with help of Diagram and Images the procedures through which the vulnerabilities are exploited.

It is written in simple and lucid language to be understood by one and all.

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