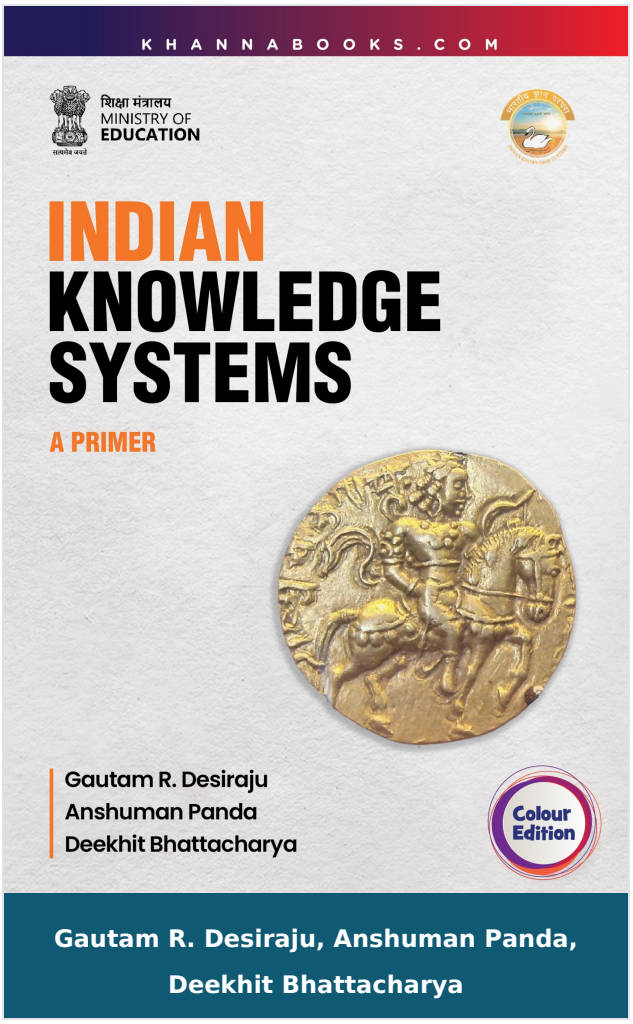



# Indian Knowledge System- A Primer (Colour Edition)

| | |
|---|---|
| **Author :** | Gautam R. Desiraju, Anshuman Panda, Deekhit Bhattacharya |
| **ISBN 13 :** | 978-93-09437-82-3 |
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## Product Description

The subject of Indian Knowledge Systems (IKS) has seized the attention of educationists, policy makers and administrators in universities and other teaching institutions. IKS has now entered the mainstream discourse and is the topic of discussion among both students and teachers.

The purpose of this introductory text, Indian Knowledge Systems: A Primer, is to present a perspective of an educational system that propelled our ancient country into a position of unparalleled and largely unrivalled position of economic and military superiority. This book explores how this actually came about, and sadly enough the roots of its decline, because of historical events that the people of this country were able to neither predict nor control.

This book also attempts to show how we can engineer a renaissance in IKS, in a country that is only now seeking its place in a new world order where paradigms of governance, war, and economies that have held sway for over 500 years are being overthrown with bewildering speed. At such a time, we hope that this introductory text will stoke a curiosity among young students who are at the threshold between school and college, and prompt them to ask whether they have it within themselves to be a part of this intellectual renaissance. Invoking Indians from the former generations, we are going to the distant past is, we believe, a worthwhile exercise because we are a part of a continuous civilization that shows little sign of real decline even after 5000 years.

This book is typeset in two vertical columns. The text on the left-hand side is typical curriculum material and may be the subject of quizzes, tests and examinations. The material on the right-hand side is extra, supporting text, that will hopefully enhance the enjoyment of the left-hand side with its illustrations, and the audio and video links. We urge teachers not to consider the right-hand side information as material suitable for tests and examinations, as this was not the intent of introducing the right-hand side

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column.

We trust this book will be of interest to students and teachers and that our perspective on IKS will impel them to seek new avenues towards its study.

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- What is Indian?
- What is Knowledge?
- What is Systems?
- What is IKS?
- Bhartiya Civilizational Reawakening


## Author


**Gautam R. Desiraju**

Gautam R. Desiraju

**Anshuman Panda**

Anshuman Panda

**Deekhit Bhattacharya**

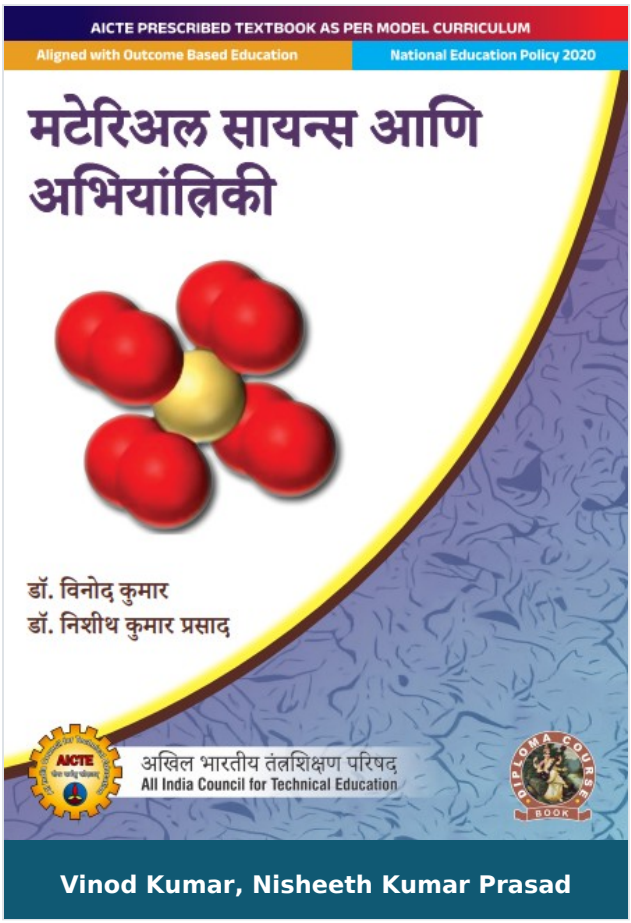
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# Material Science & Engineering

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Sonal Yadav

# Computer System Organization

| | |
|---|---|
| **Author :** | Sonal Yadav |
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## Product Description

### Computer System Organization

The key concepts of computer system organization are covered in this book. All the fundamental concepts of computer structures, control unit design arithmetic operations, microprocessor architecture. Assembly language programming, and memory interfacing with input-output devices are covered in the book. This book combines theoretical knowledge with practical applications. It also presents state-of-the-art experiments using Verilog HDL language, 8086 microprocessor, NASM assembler, and Gem5 simulator. Each topic can be studied further to advance levels by scanning QR codes provided in the chapters.

This book is written for diploma and undergraduate students of CSE, IT, ECE, and MCA to strengthen the ability to analyze and solve simple to complex computer system organization problems. In ‘know more’ section, notable Indian inventors as well as rich Indian Vedas knowledge and fundamental principles are presented for motivating readers to practice our valuable principles in modern lifestyle.

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.

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- 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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- Micro Programmed Control
- Microprocessor Architecture
- Assembly Language Programming
- Memory and Digital Interfacing
- References for Further Learning
- CO and PO Attainment Table
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## Author


**Sonal Yadav**

Dr. Sonal Yadav Assistant Professor Dept. of Computer Science & Engineering (CSE)

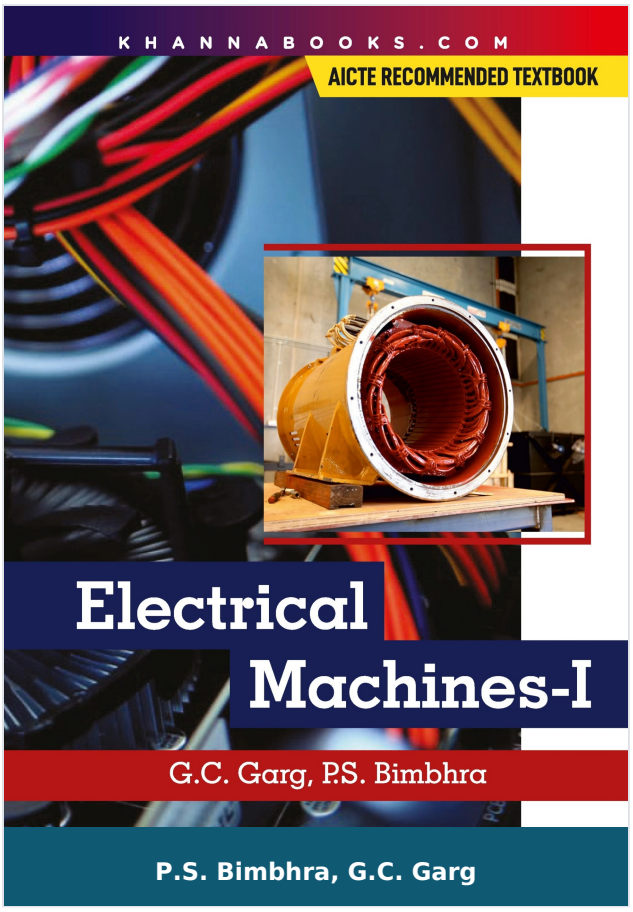
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# Electrical Machines - I

| | |
|---|---|
| **Author :** | P.S. Bimbhra, G.C. Garg |
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## Product Description

This book is written so that it serves as a text book for B.E./B. Tech degree students in general and for the institutions where AICTE model curriculum has been adopted.

TOPICS COVERED IN THIS BOOK:-

1. Magnetic field and Magnetic circuit

2. Electromagnetic force and torque

3. D.C. Machines

4. D.C. Machines-Motoring and Generation

SALIENT FEATURES:-

1. Self-contained, self-explanatary and simple to follow text.

2. Numerous worked out examples.

3. Well Explained theory parts with illustrations.

4. Exercises, objective type question with answers at the end of each chapter.

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- Chapter-2: Electromagnetic Force and Torque
- Chapter-3: The Direct Current Machines
- Chapter-4: DC Machine-Motoring and Generation
- Chapter-5: Transformers


## Author


**P.S. Bimbhra**

Dr. P.S. Bimbhra retired as a professor of Electrical and Electronics Engineering from T.I.E.T. Patiala. A graduate of Punjab Engineering College, Chandigarh, he received his M.E. (Hons.) and Ph.D. from IIT Roorkee. He is fellow of the Institution of Engineers and a life member of ISTE. His areas of current interests include Electrical Machines, Power Electronics and Electric Drives.

**G.C. Garg**

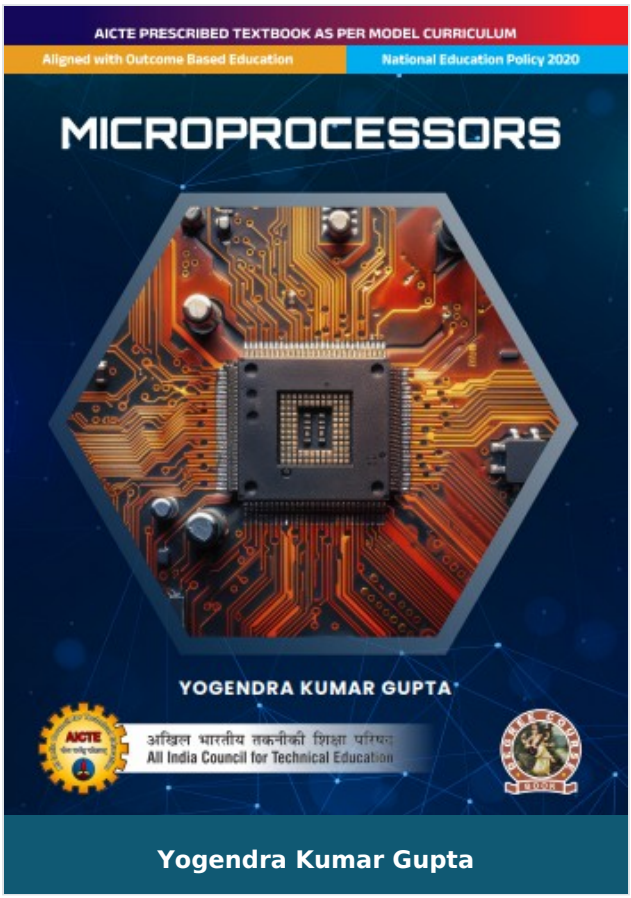
Prof. G.C. Garg retired as registrar from the Technical Education Department Haryana, Chandigarh. Before that he was Head of Deptt. In Electrical Engineering at Govt. Institution of Engineering Ambala City, Haryana. After Graduation in Electrical Engineering he has gone 2½ years regular advance course in Electrical Engineering with specialization of Electrical Machines in T.T.T.I. Chandigarh in collaboration with Netherlands Govt. under the guidance of Prof. B. Mone who was authority in Electrical Machines and Electrical Power. He has also undergone one and a half year Industrial/Power Projects/Field and Transmission & Distribution Power Stations. He is fellow of the Institution of Engineers (India).



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# Microprocessors

| | |
|---|---|
| **Author :** | Yogendra Kumar Gupta |
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## Product Description

**Microprocessors**

This book contains topics of Microprocessors for the Vth semester students of Undergraduate degree in Electrical Engineering strictly as per syllabus and model curriculum of AICTE and aligned with the theme of outcome-based education according to National Education Policy 2020. This book comprises of five units covering topics on Fundamentals of Microprocessors, the 8051 Architecture, Instruction set and Programming, I/O Interfacing, Sensor Interfacing.

Salient features:

- Content of the book aligned with the mapping of Course Outcomes, Program 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 large number of examples, exercises, information beyond the unit coverage, QR code for E-Resources and references.
- Student and teacher centric subject materials included in book with balanced and chronological matter.
- Figures and tables inserted to improve clarity of topics.
- A ‘Know More’ section in each unit extends the learning beyond the syllabus.
- MCQs, short-answer type, long-answer type, numerical and practical questions added for the units to help in self-checking of knowledge.
- Answers have been provided for the MCQs and numerical questions. Hints have been given for solving the practical problems.

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- THE 8051 ARCHITECTURES
- INSTRUCTION SET AND PROGRAMMING
- MEMORY AND I/O INTERFACING
- CO and PO attainment table
- Index terms


## Author


**Yogendra Kumar Gupta**

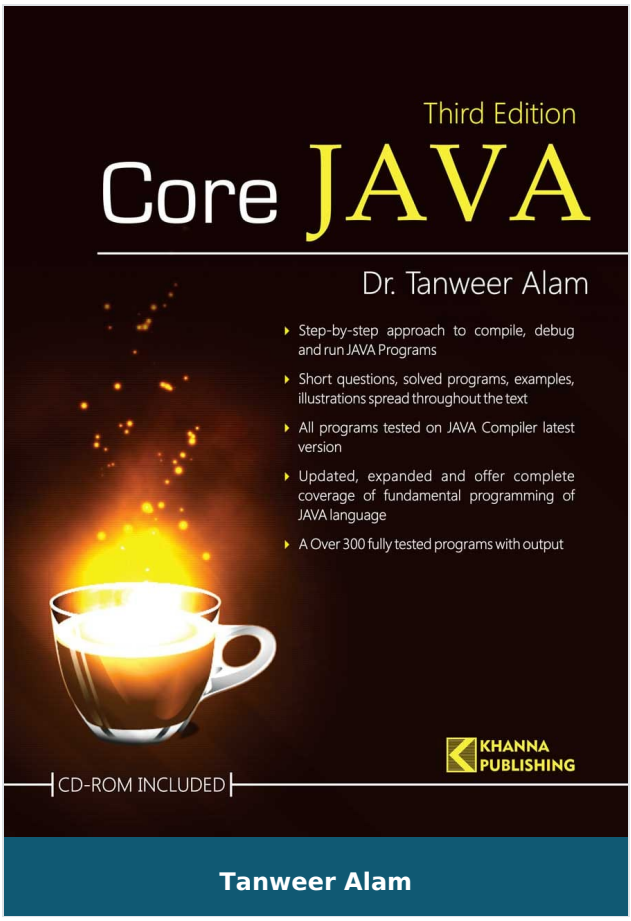
Dr. Yogendra Kumar Gupta Associate Professor, Dept. of Computer Science & Engineering, Swami Keshvanand Institute of Technology Management & Gramothan



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# Core JAVA

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| **Author :** | Tanweer Alam |
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## Product Description

This book will be of great help to programmers who are already familiar with programming in C,C++ or VB. They can upgrade their skills through this book and achieve great height in the world of computer programming. Java definitely has a future in research and teaching, as well as system development. The objects of this book is to promote that future by spreading the use of the language as widely as possible. Java is a technology that allows software designed. Java allows you to play online games, chat with people around the world. It is also integral. to the intranet applications and other e-business solutions that are the foundation of corporate computing. The book is self contained. The chapters in this book are arranges in a sequence order. The programs presented in this book are to understand the application.

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- Socket Programming
- Abstract Window Toolkit
- Event Handling
- Graphics Programming
- Swing in Java
- JDBC
- Core Java Lab Manual


## Author

**Tanweer Alam**

Tanweer Alam has an experience of more than seven years in the Teaching field. Currently, He is working at MCA Department, Meerut Institute of Engineering and Technology, Meerut. He has got his MCA Degree in 2003 from UP Technical University, Lucknow, UP. He has got his Master Degree in Mathematics in 2000 from CCS University,

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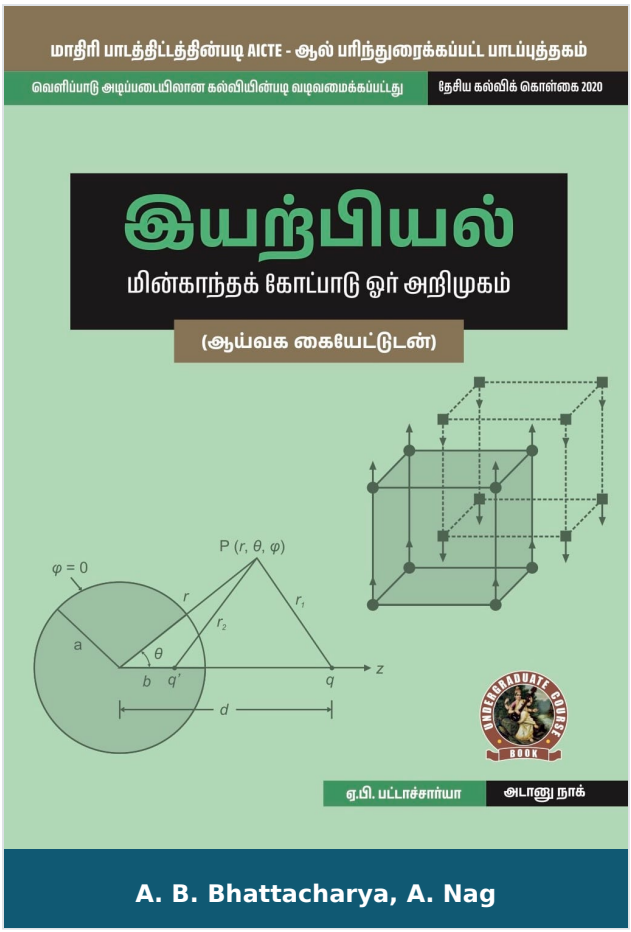
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Meerut, UP. He has got his MPhil Degree in Computer science in 2007 from MKU, Madurai. He is also MTech in IT and currently, He is doing PhD in Computer Science & Engineering. He presents more than thirty research papers in various reputed national/international Conferences/Journal.

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# Physics (Introduction to Electromagnetic Theory) (with Lab Manual)

| | |
|---|---|
| **Author :** | A. B. Bhattacharya, A. Nag |
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| **Country Origin :** | India |

## Product Description

Engineering Physics: Introduction to Electromagnetic Theory has been written for the first year students of B. Tech Engineering Degree Courses of all Indian Universities following the guideline and syllabus as recommended by AICTE. The book, written in a very simple and lucid way, will be very much helpful to reinforce understanding of different aspects to meet the engineering student’s needs Writing a text-cum manual of this category poses several challenges providing enough content without sacrificing the essentials, highlighting the key features, presenting in a novel format and building informative assessment. This book on engineering physics will prepare students to apply the knowledge of Electromagnetic Theory to tackle 21st century and onward engineering challenges and address the related questions.

# Some Salient Features of the Book:

€1. Expose basic science to the engineering students to the fundamentals of physics and to enable them to get an insight of the subject.

2. To develop knowledge on critical questions, solved and supplementary problems covering all types of medium and advanced level problems in a very logical and systematic manner.

3. Some essential information for the users under the heading “know More” for clarifying some basic

4. Information as well as comprehensive synopsis of formulae for a quick revision of the basic principles.

€5. Constructive manner of presentation so that an Engineering degree students can prepare to work in different sector or in national laboratories at the very forefront of technology.

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Prof. A. B. Bhattacharya did his MSc and PhD degree from the University of Calcutta in Physics and Post-doc from the Massachusetts Institute of Technology (MIT), Cambridge, USA. He worked in close collaboration with the leading laboratories like Lincoln Laboratory; Milestone Hill Observatory; Earth, Atmospheric and Planetary Sciences division of MIT and many other well recognized laboratories in India and abroad. He served as Professor & Head of the Department of Physics, University of Kalyani; Dean of Research and Head of the ECE Department, Techno India University; Pro Vice Chancellor of JIS University and Director of Brainware University. He has published 32 text books for Science and Engineering students, two popular books for general readers and over 400 research articles in reputed International Journals. Under his supervision 24 scholars received their doctoral degree. He is a fellow of the Institute of Electronics and Telecommunication Engineers and member of many scientific organizations. India International Friendship Society awarded him the prestigious "Shiksha Ratna Award" and Certificate of Excellence for meritorious services, outstanding performance and significant contribution to education. The International Institute of Success Awareness hon0red him with their globally recognized "Glory of India Gold Medal" for his outstanding contribution to the national stature of India. A few words from the certificate issued by Prof. Williams of MIT may be quoted "Our collaborative effort was directed at the wavelength dependence of radar echoes observations with the Millstone Hill UHF radar in Westford. He made use of the Charles River Data System computer in the Weather Radar Laboratory for these calculations. His results help to make a convincing case that the volume reflectivity associated with lighting is a diminishing function of radar wavelength, contrary to contemporary thinking". Dr.

**A. Nag**

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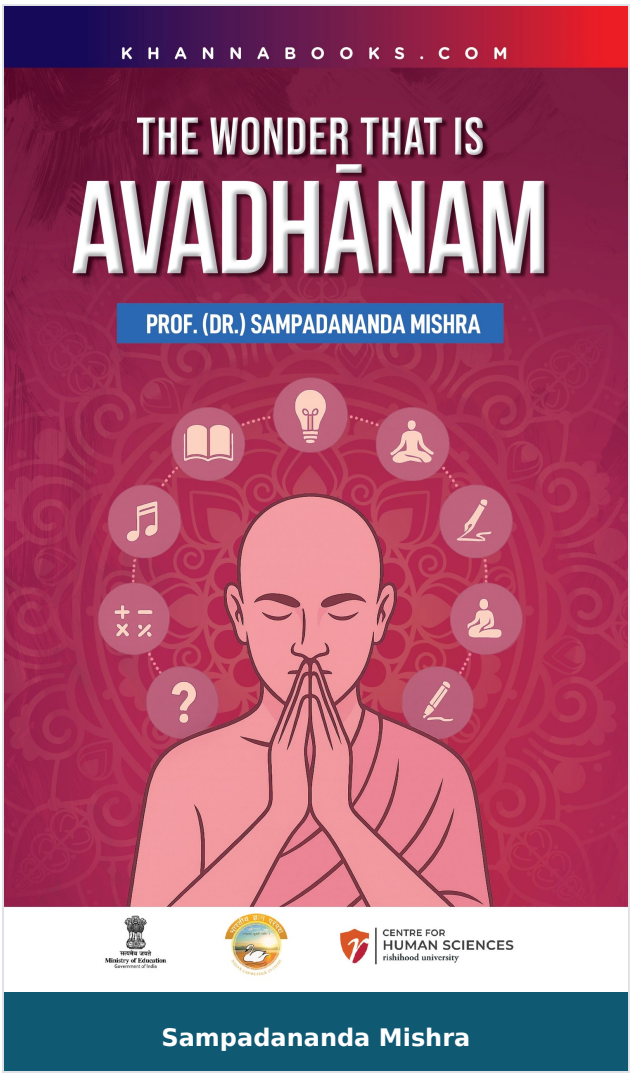
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A. Nag Dr. Atanu Nag did his M. Sc. in 2007 and Ph. D. in 2013 from the University of Kalyani. He has published over 50 Journal papers and 5 books for Science & Engineering students. Presently he is the Head and Associate Professor in the Department of Physics, Modern Institute of Engineering & Technology, Hooghly, West Bengal.

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# The Wonder That is Avadhanam

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| **Author :** | Sampadananda Mishra |
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## Product Description

The year 2000 holds a special place in my heart because that's when I first discovered something truly magical – Avadhāna. It happened during a seminar in Pondicherry, and little did I know that this art form would become a source of inspiration and wonder in my life. I was part of the team organizing an Avadhāna program, and my job was simple. But what unfolded on that day was anything but ordinary. Avadhāna, which once seemed like a distant and mystical concept, came alive before my eyes, challenging my skepticism and leaving an unforgettable impression. Watching the Avadhāna performance was like witnessing a breathtaking dance of the mind. The performer's skill, speed, and brilliance pushed the boundaries of what I thought was possible. It was more than just a show; it was a journey into a world where intellect and creativity danced together in perfect harmony. Since that day, my life has been a journey of exploration into the art of Avadhāna. I felt a deep connection and a need to share its wonders with the world. I realized there was a missing piece—a book that could introduce Avadhāna to those curious about it, a guide for those wanting to understand its essence. As I delved into the details of Avadhāna, I discovered not just a skill but an endangered art form in need of recognition. It became clear that the survival of Avadhāna depended on creating awareness—helping people see its beauty, challenges, and importance in our cultural heritage. In my quest to understand Avadhāna, I stumbled upon the remarkable life of Vasishtha Ganapati Muni, a true master of Avadhāna. His ability to vi perform Avadhāna was extraordinary, and learning about his life became a fascinating part of my exploration. His anecdotes of composing poetry on the spot and rearranging complex syllabic structures during Avadhāna were awe-inspiring. Vasishtha Ganapati Muni, a shining star in the world of Avadhāna, became a source of inspiration for me. His journey not only showcased the heights achievable in Avadhāna but also left an everlasting mark on this ancient tradition. His story has become a guiding force, pushing me to unravel the layers of this intricate art form and share its beauty with the world. Ganapati Muni's

incredible skills in Avadhāna were truly mindblowing. In one event in Madras, he was challenged to compose a hundred verses on Nala and Damayanti's story in just an hour. Muni's creative flow was so rapid that he crafted twenty-five verses in just six minutes, leaving everyone in awe. His prowess in rearranging syllables in a challenging verse and even reciting it backward showcased his brilliance. At the end of an Avadhāna, he flawlessly critiqued a famous verse, leaving the audience thunderstruck. These moments from his journey highlight the intricate brilliance and indomitable memory power needed in Avadhāna. Following in Vasishtha Ganapati Muni's footsteps, I found not just inspiration but a deep connection to the heart of Avadhāna. His extraordinary abilities reminded me that within the realms of memory, creativity, and intellectual agility, there's a universe waiting to be explored—an invitation to witness the wonders of the human mind through Avadhānam. Continuing my exploration, I discovered two more incredible stories: G N K Ramaswaroop from Enkoor village and Nishchal, a nine-year-old prodigy from Hyderabad. Their stories shed light on Avadhānakalā, the ancient art of multiple concentration. Ramaswaroop, focused on the Bhagavad Gita, amazed audiences by memorizing all 700 shlokas. His performances weren't just recitations; they were a dance of intellect, responding swiftly to questions in various forms. Whether reciting a shloka given a starting word or number, identifying a shloka when recited in reverse, or engaging in the rhythmic Preface vii antyakshari of Gita verses, Ramaswaroop showcased mental agility that set him apart as a true master of Avadhānakalā. Then there's Nishchal, a nine-year-old maths whiz from Hyderabad. While others focused on poetry, Nishchal channeled his concentration and mind power into solving complex maths problems and memorizing 20-digit numbers effortlessly. His feats proved that Avadhānakala goes beyond language and subject matter, captivating audiences with the beauty of mathematics. Colonel H. S. Olcott, an American military officer, journalist, lawyer, and the co-founder and first President of the Theosophical Society, writes in one of his articles published in 'The Theosophist magazine for 1886', about an occasion on which a memory expert of South India simultaneously kept in mind and did the following twelve things and afterward

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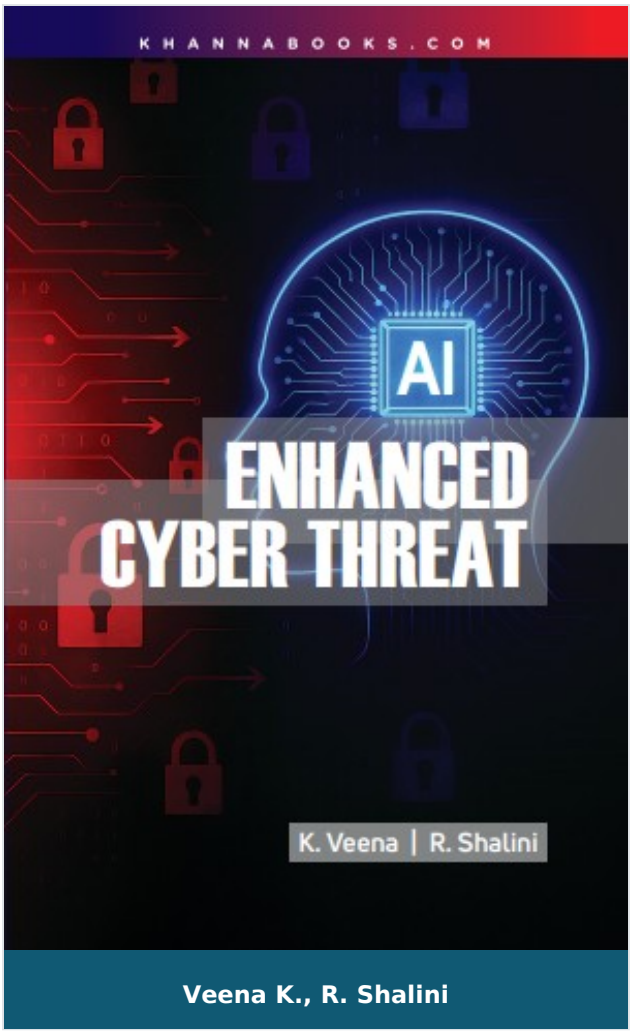
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Dr. Sampadananada Mishra, a distinguished scholar in Sanskrit and indian Knowledge Systems ( IKS), has dedicatedhis life to the study, preservation, and propagation of india's richlinguistic and philosophical heritage. He holds a BA and MA in Sanskrit from utkal University, where he also completed his Ph.D.with a dissertation on the evolution of the Sanskrit language, inspired by Sri Aurobindo's perspectives. Dr. Mishra is renownedfor founding the World's first 24-hour Sanskrit radio channel, Divyavani Sanskrit Radio, in 2013, adFor his role as Associate Editor of the ' Collected Works of Vasishtha kavyakantha Ganapati Muni; a landmark twelve- volume publication . His contributions to Sanskrit have earned him several prestigious awards, Including the president's Maharshi Badarayana Vyasa Samman and the Sri Aurobindo Puraskar 2024. His Career has been marked by a passionate commitment to ensuring that Sanskrit and IKS flourish within both academic and cultural landscapes.

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Veena K., R. Shalini

# AI Enhanced Cyber Threat

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**AI Enhanced Cyber Threat**

In the rapidly evolving digital landscape. Artificial intelligence (AI) presents a double – edged sword. While it serves as the foundation for next-generation defense systems. It is simultaneously being weaponized by adversaries to create sophisticated, adaptive, and highly evasive cyber threats.

AI Enhanced cyber threats offers a vital, comprehensive analysis of this critical intersection. This book meticulously explores the emerging methodologies where Ai and Machine Learning are used to launch automated spear-phishing campaigns, craft polymorphic malware, and bypass conventional security measures. Crucially, it provides IT professionals, security analysis, and researchers with actionable, cutting-edge strategies to counter these advanced threats.

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- Fundamentals of cybersecurity
- Impact of AI on cybersecurity
- Secure web and application security
- Cyber threats


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**R. Shalini**

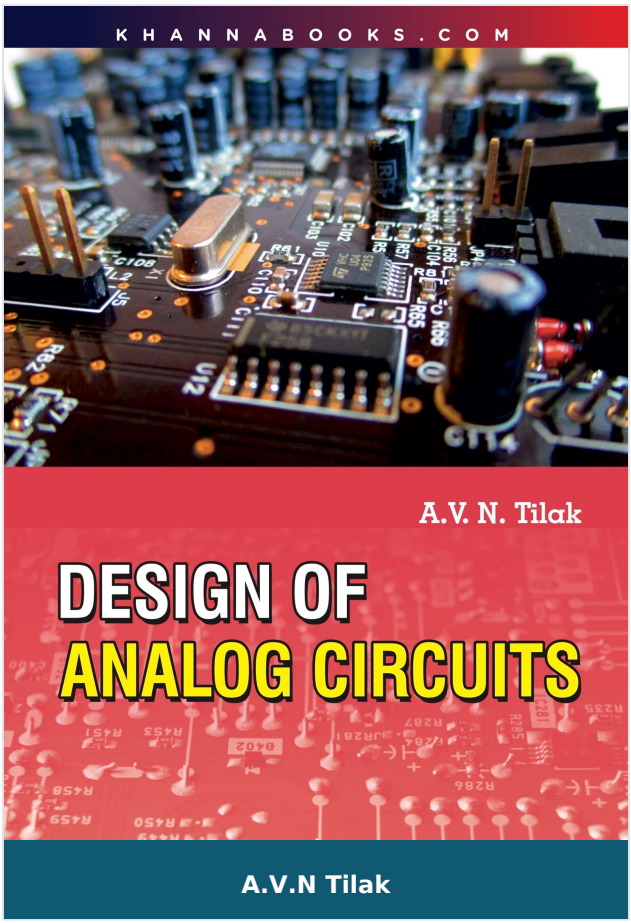
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# Design of Analog Circuits

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The book "Design of Analog Circuits" will help the students as well as practicing engineers understand the design of a range of working circuits involving diodes, metal oxide semiconductor field-effect transistors (MOSFETs), bipolar junction transistors (BJTs), operational amplifiers, 555 timer, and voltage regulator ICs. The book is organized into four chapters and covers the design of circuits such as regulated power supplies, clippers, clampers, voltage amplifiers, feedback amplifiers, power amplifiers, oscillators, filters, circuits for arithmetic operations, and waveform generators.

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## Author

**A.V.N Tilak**

A.V.N Tilak A.V.N.Tilak obtained his B.E. from MIT Manipal, M.Tech. from IIT Kanpur and Ph.D. from IIT Madras. Dr. Tilak had worked for over 35 years in teaching and research. He is a Senior Member of IEEE, Fellow IETE, Fellow IE(I), and Life Member ISTE.

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“Environmental Science” is an audit course for the first year Diploma program 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.

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- Renewable sources of Energy
- Soil waste Management, ISO 14000& Environmental management.
- Important Day Related to Environment
- CO and Po Attainment Table
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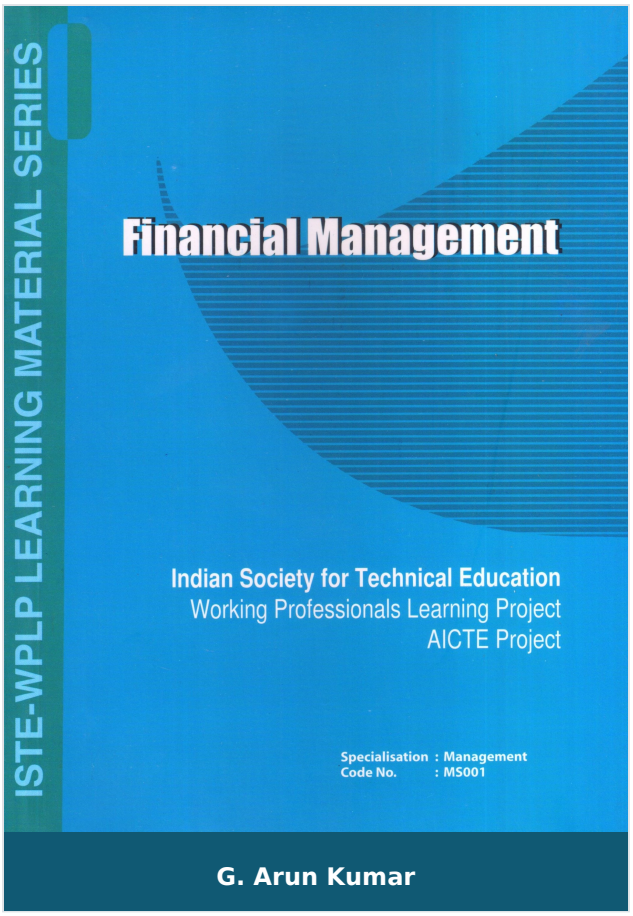
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The trend of current day Financial Management is to emphasized on overall managerial implication of a decision made than the decision making process itself. Through it is occasionally useful to put under a scanner the entire process of decision making. the managers are better advised to focus on the implications. Such is the focus of this reading material on Financial Management.

This is a concise form of basic text in the area of Financial Management and assumes that, the participant has as basic level of knowledge in accounting and the financial markets. This reading material will accomplished the objective of both a basic addition to a financial management theory. The instructor who chooses to discuss the basic financial management theory will find this reading material especially appealing.

Through this material is more of a miniature form of a financial management text book in provides clarity, in terms of various basic theories and aspects for a person new to tis arena. The entire material is divided into three modules. In the first module, the author introduces the subject of financial management and also discusses the time value of money concepts.

In the second part of this material, the various characteristics of risk viz. systematic and unsystematic risk and their measurement is discussed. In addition, the various return models are also discussed. The basic portfolio selection and measurement of portfolio risk and return along with cost of equity are discussed in this module. The third module focuses on capital structure and divided policy. Various types of markets efficiency and their implications give the reader a sufficient idea about the markets. In this module the debt markets and the market signaling aspects are also discussed.

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