

Microprocessors

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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
- EXTERNAL COMMUNICATION INTERFACE
- APPLICATION



Author

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Microcontrollers and Applications

Author : Santanu Chattopadhyay

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Product Description

Microcontrollers and Applications This book contains topics of Microcontrollers and Applications for the fourth semester students of diploma course strictly as per syllabus and model curriculum of AICTE and aligned with the theme of outcomes-based education according to National Education Policy 2020. This book comprises of five units covering topics on fundamentals of microprocessors and microcontroller, The 8051 Architecture, instruction set and programming, I/O Interfacing and introduction to advanced Processors and Concepts. 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 matter.
- Figures, tables, inserted to improve clarity of topics.
- A 'know more' section in each unit to extends the learning beyond 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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- Fundamentals of Microprocessors and Microcontrollers
- The 8051 Architecture
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- I/O interfacing
- Introduction to advanced processors and concepts

CO and PO Attainment Table Index



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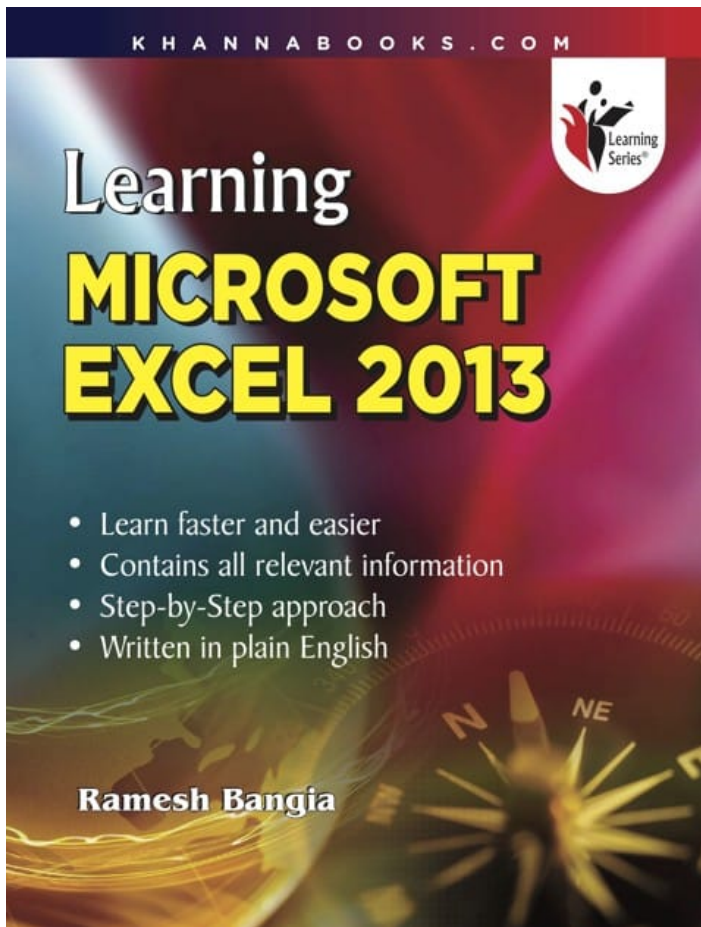
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Condition Type :	New
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Product Description

The book is designed in a very systematic, logical manner and illustrated with suitable examples and screen shots. A large number of unsolved as well as solved exercises have also been included. Diagrams , functions has been explained in full and some of them is explained in the form of examples.

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- Chapter 1:** Introduction to Microsoft Office 2013.
- Chapter 2:** What's New in Microsoft Excel 2013.
- Chapter 3:** Spreadsheet Basics.
- Chapter 4:** Creating a Worksheet in Microsoft Excel 2013.
- Chapter 5:** Commands of Microsoft Excel 2013.
- Chapter 6:** Charts in Microsoft Excel 2013.
- Chapter 7:** Functions in Microsoft Excel 2013.
- Chapter 8:** Web based Commands of Microsoft Excel 2013.
- Chapter 9:** Advanced Microsoft Excel 2013.
- Chapter 10:** Glossary of Words used in Microsoft Excel 2013.
- Chapter 11:** Keyboard Shortcuts of Microsoft Excel 2013, Questions.
-

Author

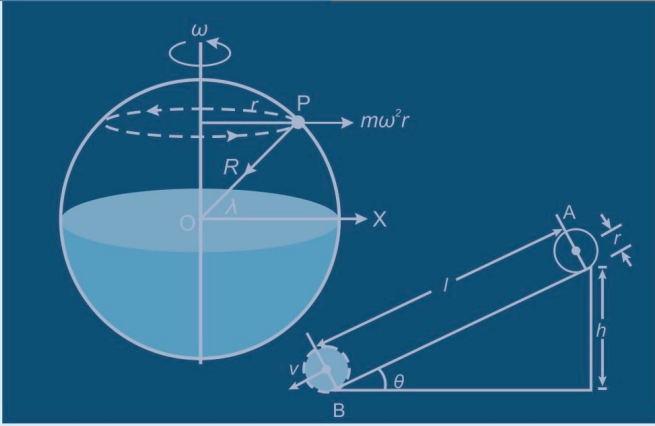
Ramesh Bangia For the last fifteen years, Ramesh Bangia, has been writing computer books on various topics. He has written books for Schools, Training Institutes, Technical Universities, Distance Education Programs, Colleges and General. His tally of books exceeds 500 in number. Trained both in India and Abroad and having studied at IIT Delhi, he becomes automatic choice for most of the publishers in India. Though based in Delhi, his books are popular all over India and are even exported to Middle East and African countries.



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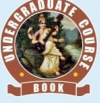
राष्ट्रीय शैक्षणिक धोरण 2020



भौतिकशास्त्र

यांत्रिकीचं परिचय

(प्रयोगशाळा नियमपुस्तिकेसह)



ए.बी. भट्टाचार्य | अतानू नाग

Physics (Introduction Mechanics)

Author : A. B. Bhattacharya

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Product Description

Physics: Introduction to Mechanics 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 Mechanics to tackle 21 century and onward engineering challenges and address the related questions. Some Salient features of the book:

- Expose basic science to the engineering students to the fundamentals of physics and to enable them to get an insight of the subject.
- To develop knowledge on critical questions solved and supplementary problems covering all type of medium and advanced level
- Under problems in a very logical and systematic manner.
- Some essential information for the user the heading "Know more" for clarifying some basic information as well as comprehensive synopsis of formulae for a quick revision of the basic principles.
- Constructive manner of presentation so that an Engineering degree students can prepare to work in different sectors or in national laboratories at the very forefront of technology.



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Unit 2: Conservation Principles.

Unit 3: Dynamics of Particles.

Unit 4: Oscillations.

Unit 5: Rotational Motion.

Unit 6: Dynamics of a Rigid Body.

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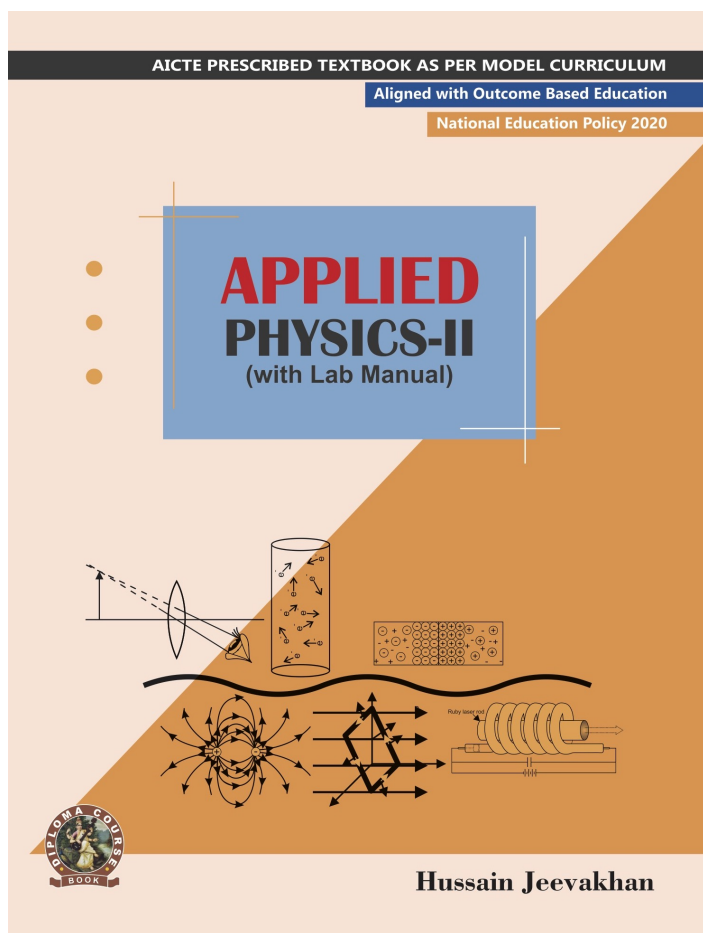
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Authors

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Applied Physics II (with Lab Manual)

Author :	Hussain Jeevakhan
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Product Description

“Applied Physics-II” is a basic science course in the first year of the Diploma program in Engineering & Technology. Contents of this book are stringently aligned as per model curriculum of AICTE and incorporated with the concepts of outcomes-based education(OBE). Book covers seven topics- Wave motion, Optics, Electrostatics, Current electricity, Electromagnetism, semiconductor physics and Modern physics. Each topic and its subtopics are written from the perspective of a student’s learning and in accord with the NEP 2020 guidelines. Every unit comprises a set of activities and exercise at the end to assist the student’s learning. Some salient features of the book: 1. Unit Outcomes of each unit are mapped with Course Outcomes and Programs Outcomes. 2. Book Provides relevant interesting facts, QR Code for E-resources and use of ICT and suggested micro projects activities in each unit. 3. Content presented in book in chronological way. 4. Figures, tables and equations are given to improve clarity of the topics. 5. Solved examples are given with systematic steps. 6. MCQ’s, short and long answer questions and unsolved problems of understanding and above levels (Bloom’s Taxonomy) are given for learning reinforcement of students and as per OBE.

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Foreword, Acknowledgement, Preface, Outcome Based Educations, Course Outcomes, Abbreviations and Symbols, List of Figures, Guidelines for Teachers, Guidelines for Students Chapter 1: Wave Motion and its applications. Chapter 2: Optics. Chapter 3: Electrostatics. Chapter 4: Current Electricity. Chapter 5: Electromagnetism. Chapter 6: Semiconductor physics. Chapter 7: Modern physics. Index

Author

Hussain Jeevakhan



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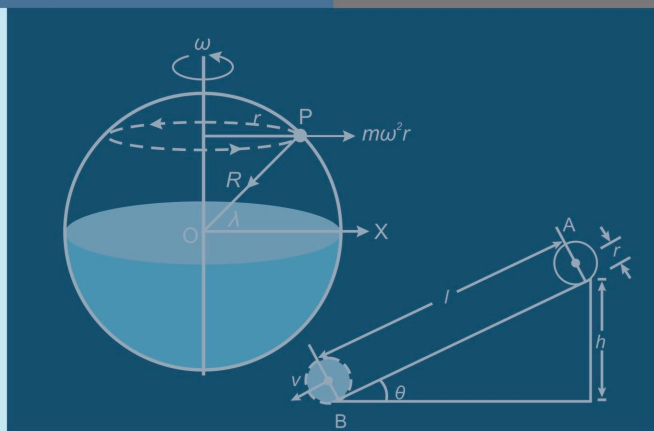
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AICTE PRESCRIBED TEXTBOOK AS PER MODEL CURRICULUM

Aligned with Outcome Based Education

National Education Policy 2020



PHYSICS

Introduction to Mechanics

WITH LAB MANUAL



A.B. Bhattacharya | Atanu Nag

Physics (Introduction to Mechanics) (with Lab Manual)

Author :	A. B. Bhattacharya
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Product Description

Physics: Introduction to Mechanics 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 Mechanics to tackle 21 century and onward engineering challenges and address the related questions. Some Salient features of the book:

- Expose basic science to the engineering students to the fundamentals of physics and to enable them to get an insight of the subject.
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Appendices Annexures References for Further learning CO and PO Attainment Table Index



Authors

Prof. A. B. Bhattacharya, Pro-Vice-Chancellor of JIS University, did his M. Sc. and Ph. D. degree in Physics from the University of Calcutta. He did his Post-doc from the Massachusetts Institute of Technology, USA and subsequently joined in the Department of Physics, Kalyani University. He has published 256 Research papers in high-impact Journals and over 150 proceeding papers in conferences. He has successfully guided 24 scholars for their Ph.D. and has written a large number of invited articles in many Journals. He is the author of 29 textbooks written for engineering and science students and also for general readers from many reputed publishers like Infinity Science Press, Taylor & Francis, etc. International Institute of Success Awareness honored him with their most coveted Institutional and globally reputed “Glory of India Gold Medal” for remarkable contributions to India’s national prestige. He is a Life Fellow of the Institution of Electronics and Telecommunication Engineers. **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.



AICTE PRESCRIBED TEXTBOOK AS PER MODEL CURRICULUM

Aligned with Outcome Based Education

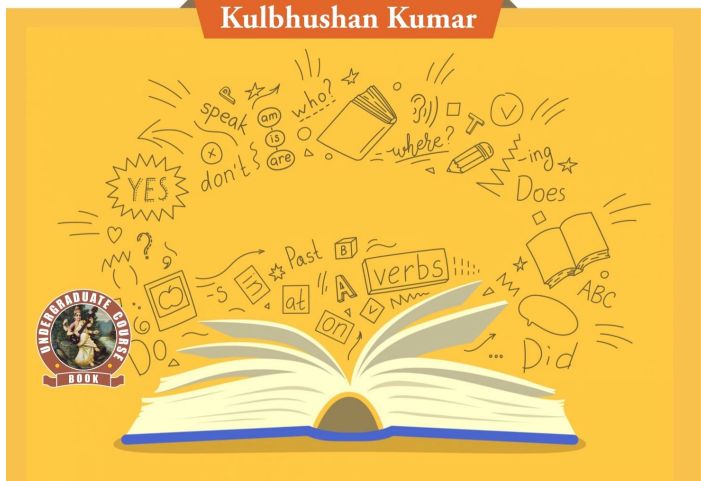
National Education Policy 2020

ENGLISH

for Technical Professionals

WITH LAB MANUAL

Kulbhushan Kumar



English (with Lab Manual)

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Product Description

The Book on English in your hand is a textbook intended for the second language learners who wish to learn English but have a less environment in conversing with others in English. The book covers AICTE model curriculum for first year undergraduate degree courses in Engineering and Technology. The book is meant to familiarize the students with different aspects and genres in English including reading, listening comprehension, written and speaking skills. A must-buy for the students of engineering, Management and Humanities, the book combines reference grammar and practices exercises while maintaining a practice- oriented approach. So, to solve the purpose, the book has been divided into six part that highlights: 1. Vocabulary Building 2. Basic written Skills 3. Identifying Common Errors in Writing 4. Nature and style of Sensible Writing 5. Writing Practices 6. Oral Communications

Salient Features: This book covers a wide range of topic such as conversation practice, vocabulary building , writing practices and sentence Patterns which generates a great taste to its learners. Apart from the core lessons, this course book includes additional reference tools strategies for learning independently, vocabulary trainer and ideas for developing speaking skills. The sole purpose of the book is to empower students with language and life skills the need to carry out to achieve their career goals. A big part of the book is about the vocabulary, with numerous examples. It prepares the learners in Business English for effective communication not only as students during their collegiate day but also as employees after being employed. It is a complete guide for all business and proessional communication activities explaining in simple language how people interact with each other through effective use of spoken and written English. To make the students face the competitive world, each chapter of this book is clearly structured with a strategic approach to learn the target language from the basic level. Therefore, it's THE BEST book for every technical student who wants to understand how English Works.



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Guidelines for Students

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Chapter 2: Basic Writing Skills.

Chapter 3: Identifying Common Errors in Writing.

Chapter 4: Nature and Style of Sensible Writing.

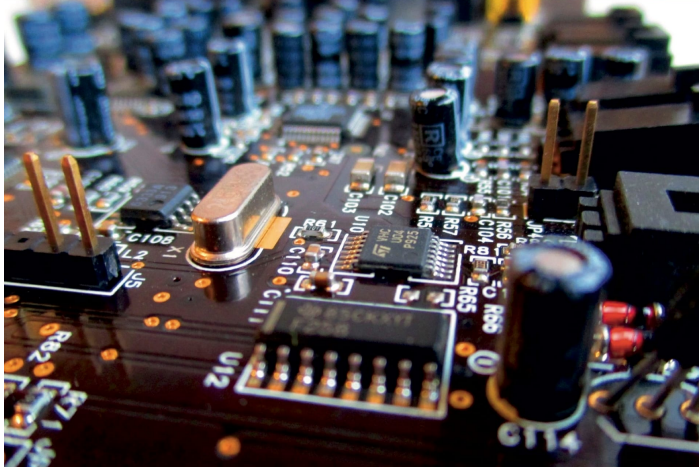
Chapter 5: Writing Practices.

Chapter 6: Oral Communication.

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Baru Sahib-173101 (Himachal Pradesh).





A.V. N. Tilak

DESIGN OF ANALOG CIRCUITS

Design of Analog Circuits

Author :	A.V.N Tilak
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M.R.P :	Rs 498.00
Categories :	Electrical, Electronics & Communication Engineering
Condition Type :	New
Country Origin :	India

Product Description

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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Chapter 2: MOSFET Circuits.

Chapter 3: BJT Circuits.

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Chapter 6: APPENDIX B: MOSFET Datasheet.

Chapter 7: APPENDIX C: BJTs Datasheets.

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Bibliography

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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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