



Computer Programming: Theory and Practicals

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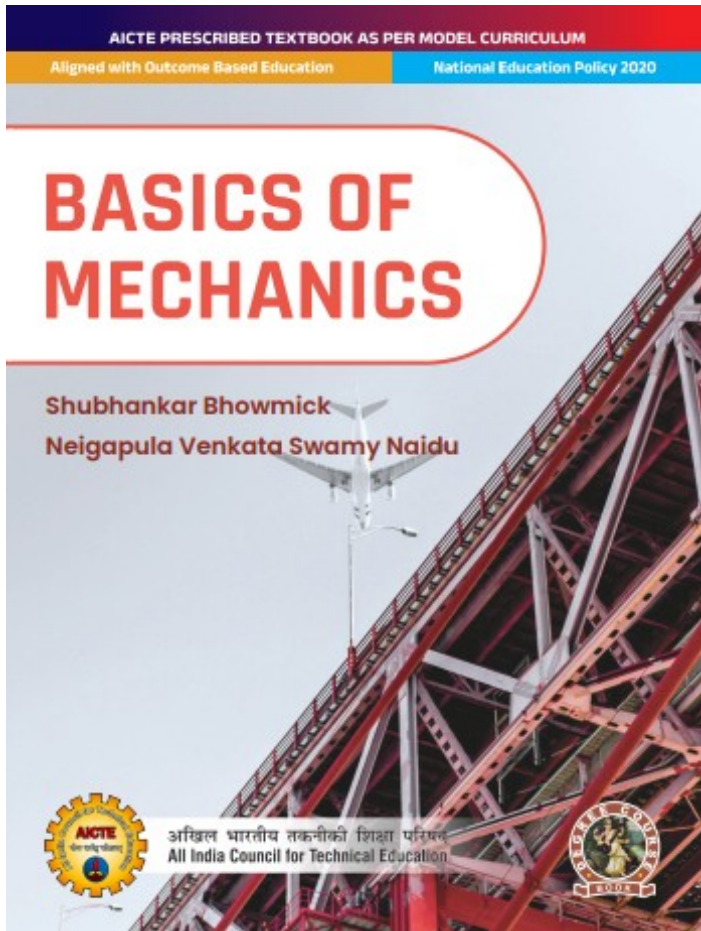
Computer Programming: Theory and Practicals



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Basics of Mechanics

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Product Description

Basics of Mechanics “Basics of Mechanics” is a fundamental subject for UG Civil and Mechanical Engineering students, designed to build logical, analytical, and problem-solving skills essential for tackling Mechanics problems. This book presents fundamental concepts in a clear and accessible manner, enriched with numerous figures and visual aids. It thoroughly explains the core principles and includes leading examples that smoothly transition to advanced theories. The main focus is on applying engineering structures to solve real-world engineering challenges. Supplementary information provided to ignite the young minds and motivate in a systematic way. 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 out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR Code for E-resources, practical applications etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, and tables 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 at the end of every chapter.
- Numerous solved and unsolved problems including numerical examples are demonstrated with systematic steps.



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Author

Dr. Shubhankar Bhowmick Professor, Department of Mechanical Engineering, NIT Raipur **Dr. Neigapula Venkata Swamy Naidu** Professor, Department of Mechanical Engineering, NIT Raipur



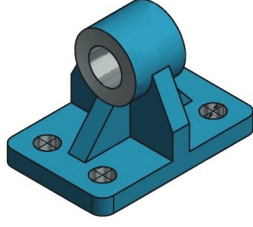
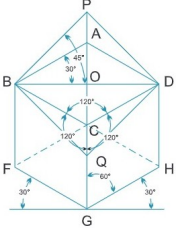
AICTE মডেল পাঠ্যক্রম অনুযায়ী পাঠ্যপুস্তক নির্ধারিত

ফলাফল ভিত্তিক শিক্ষার সাথে সংযুক্ত

জাতীয় শিক্ষা নীতি 2020

ইঞ্জিনিয়ারিং

গ্রাফিক্স এবং ডিজাইন



Engineering Graphics & Design

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Product Description

This textbook "Engineering Graphics and Design" is based on the latest outcome based model curriculum of the AICTE. The book covers complete syllabus catering requirements of all major technical universities and institutes and provides insights into traditional engineering graphics as well as treats of the subject using 2D and 3D design software. It offers technical details, current standard, real world examples and clearly explains theory and technique in highly visual and concise format. The topic covered in this book are arranged into 9 chapters comprising self-explanatory diagrams and solved examples. Salient Features: 1. Introduction of Engineering Drawing. 2. Orthographic Projection. 3. Projection of Solids. 4. Section of Solids and Development of Surfaces. 5. Isometric Projection. 6. Overview of Computer Graphics. 7. CAD Drawing. 8. Solid Modelling. 9. Team Design Project.



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Author

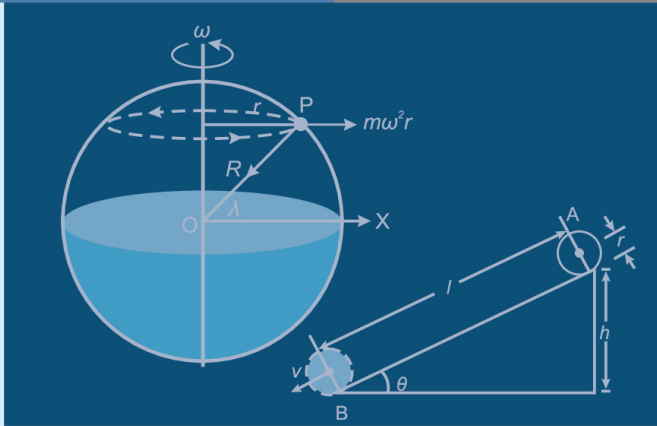
Pradeep Jain has 15 years of experience in teaching and industry in CAD/CAM. presently he is working as an associate professor in the Department of Mechanical Engineering, Ajay Kumar Garg Engineering College, Ghaziabad. He is providing training and consultancy in CAD/ CAM field.



മാതൃകാ പാഠ്യപദ്ധതി പ്രകാരം AICTE നിർദ്ദേശിച്ച പാഠപുസ്തകം

ഫലാധിഷ്ഠിത പാഠ്യപദ്ധതി

ദേശീയ വിദ്യാഭ്യാസ നയം 2020



ഭൗതികശാസ്ത്രം

മെക്കാനിക്സിന്റെ ആമുഖം

(ലാബ് മാനുവലിനൊപ്പം)



എ.ബി. ഭട്ടാചാര്യ | അതാനു നാഥ്

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.
- 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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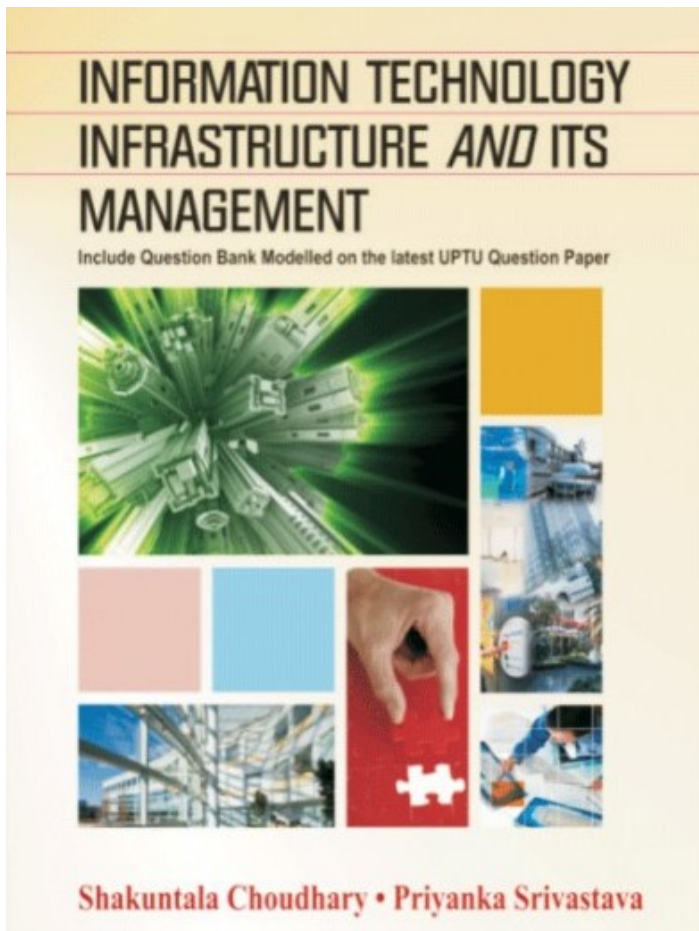


Author

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.





Information Technology Infrastructure & Its Management

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Product Description

This book is specially designed to serve as a textbook for undergraduate students of engineering at Uttar Pradesh Technical University (UPTU), This subject has been introduced for the first time in UP technical University. We have tried our best to cover the whole syllabus. Throughout the text, it has been our Endeavour to keep the explanations and definitions as lucid as possible. This book is written exclusively with students in mind. The language is user-friendly and conducive to learning. Though every attempt has been made to avoid and check error, we will be grateful to readers if they can point out any that may have crept in inadvertently.



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Author

Shakuntala Choudhary "Shakuntala Choudhary has completed his Bachelor of Engineering & M. Tech. in Computer Science & Engg. She started her teaching career in an Engineering Education from Sri Balaji College of Engineering and Technology, Jaipur, India. And worked their as HOD of IT Department. She also served in Dronacharya College of Engineering Gurgaon. Presently she is working in Bansal Institute of Engineering & Technology, Lucknow. She has rich experience in teaching for various subject like Automata, Analysis of Algorithms, Discrete Mathematics and IT Infrastructure. She had certified by ""Faculty Enable Programme"" (FEP) at INFOSYS, Chandigarh. She has published 3 - Vol of a technical magazine ""EPISTLE"" She has published various National level technical papers and Attended various Conferences. "**Priyanka Srivastava** Priyanka Srivastava has completed his B.Tech in Information Technology & MBA (IT) from ICFAI University. She started her teaching career in engineering education from Dr. M.C. Saxena College of Engineering & Technology, Lucknow. Presently she is working as a Faculty in Bansal Institute of Engineering & Technology, Lucknow. She attended various national level Seminars and Workshops. She has experience in teaching for various subjects like C-Programming, Web Technology, Database Management and IT Infrastructure Management.

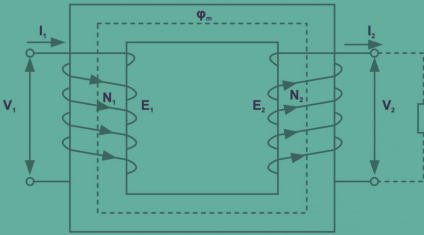


AICTE-ஆல் பரிந்துரைக்கப்பட்ட மாதிரி பாடத்திட்டத்தின் அடிப்படையிலான பாடப்புத்தகம்

விளைவு அடிப்படையிலான கல்வியுடன் இயைபு பெற்றது

தேசிய கல்விக் கொள்கை 2020

அடிப்படை மின்னியல் மற்றும் மின்னணு பொறியியல் (ஆய்வக கையேட்டுடன்)



சூசன் எஸ். மேத்யூ
சாஜி டி. சாக்கோ

Fundamentals of Electricals & 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 in 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: . Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.. 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. . Book provides lots of vital facts, concepts, principles and other interesting information. . QR Codes of video resources and websites to enhance use of ICT for relevant supportive knowledge have been provided. . Student and teacher centric course materials included in book in balanced manner. . Figures, tables, equations and comparative charts are inserted to improve clarity of the topics.. Objective questions and subjective questions are given for practices of students at the end of each unit.. Solved and unsolved problems including numerical examples are solved with systematic steps.

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Authors

Susan S. Mathew Saji T. Chacko



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INNOVISION

The Grand Challenges of 21st Century

*Shifting from a
Knowledge Economy to
What we call an
"Imagination Economy"*



C H E L A T B H U V A N A C H A N D R A N

INNOVISION

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Product Description

With ageing, we live a short future, where young people have to live there for rest of their lives. We are comfortable with friends and memories because we know them, but not with our future because we do not know it. We see problems in opportunities, in contrast youths see opportunity in problems. With better medical care and healthy food, today's 70- years old is healthier than those in their sixties a decade back and are more wealth with savings and service benefits, opening up anew market for consumption, clothing, holidays, properties and car hire. With more than hundred sensor, AI-sensitive signals and commands, our future car will be a computer on wheels, without accidents and bodyworks, Robots will care our elders and 3-D printing will relocate production with reduced costs. A smart phone can raise the labor income by 20 percent, as it enables instant connectivity between user and provider which will raise the GDP by 10 percent. It enables quality education online at no extra cost, liberating millions from poverty, illiteracy and ill-health. Our world will become less violent and corrupted; with our problems solved with opportunities making our planet more happy and livable, we can see more open exchange of knowledge, resources, collaboration and trust than conflicts and wars.

If creativity thrives when constrained, with problems to be solved by opportunity, India with one of the largest skilled talents in her campuses will regain its ancient glory of inventions and discoveries in the next future.



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Chapter 11: Big Problems are Big Opportunities!

Chapter 12: Silicon Valley Doctrines.

Chapter 13: Equality, Trust and Collaboration.

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Author

Chelat Bhuvanachandran

Chelat Bhuvanachandran retired as Gen Manager-ME & Signatory with a Swiss company- AFG Arbonia-Forster-Holding AG in 2012. He started his career as a sales trainee with British Paints India Ltd and was operating from various locations in India and later in the Middle East.

Back home after three years of consulting assignment with a German firm, he turned to volunteering to National causes and purposes. The first attempt was to script two books in 2021, 'Living The Values' - a Value narrative to Grass-root Leadership with a purpose of redefining our school model with values, patriotism and a purpose. The second book titled 'The State of Israel'- a Start-up Nation to a Scale-up Nation, which inspires our youths to achieve impossible dreams. On submission to over one hundred Govt of India departments, NCERT, MoE, CDS and DRDO acknowledged with very positive appreciation while NCERT recognized the first one as learning tool for up-skill HSE teachers and the second one as a reference document for education, military, economy and governance.

Essentially in an uncontested space, it requires a theme, passion and stretched imagination, to script a book, where his next inspiration was intertwined with Prime Minister Narendra Modi's vision that 'Start-up Innovations will drive India's GDP in next two decades'. He is not a specialist from any domains of accelerating technologies, but he selected 'entrepreneurship' which comes from the core skills of his past career. The result was 'InnoVision'-The grand challenges of 21st century. He defines every big problem as a big business opportunity, where the convergent technologies could find a business solution for each of the UN's 17 SDG- Sustainable Development Goals, where India and South Asia score poorest ranks in the world. The book's target readership is the aspiring innovators from our technology campuses.



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River Engineering

(Theory & Practice)

Prof. Santosh Kumar

River Engineering

Author :	Santosh Kumar
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Product Description

This text book is designed essentially to meet the requirements of Undergraduate Engineering interested in Water Resources specialization. More particularly, the book shall help the field engineers involved with rivers understanding river's two function of transporting water as well as sediment. The book is divided in 3-major parts, viz. Basic Science of River flow, Sediment Transport and other topics like, Flood control, River Ganging, and River Trading. The book on River Engineering containing large number of solved problems. Simplified graphs Chapter on River Ecology and Interlinking of Rivers.



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Author

Santosh Kumar Prof. Santosh Kumar, Former Professor of Civil Engineering at the Bihar College of Engineering/NIT Patna, obtained his Bachelor's degree in Civil Engineering from Regional Institute of technology/NIT Jamshedpur and Master's degree from University of Roorkee/NIT Roorkee. Further he obtained Dip. H.E. From Delft University, Netherlands. He completed his Ph.D from Patna University. Prof. Kumar taught water resources related subjects for more than 40 years. During his tenure he successfully guided four Ph.Ds. and a record 28 M.Tech dissertations. He also produced more than 50 research papers. Later he also acquired advanced knowledge in Environmental Science. Dr. Kumar was picked up by the World Bank as a consultant to its projects in Bihar at FMISC, where he served for four years. He is a Fellow of Institution of engineers India; Chairman Indian Water Resources Society (Patna Chapter).

