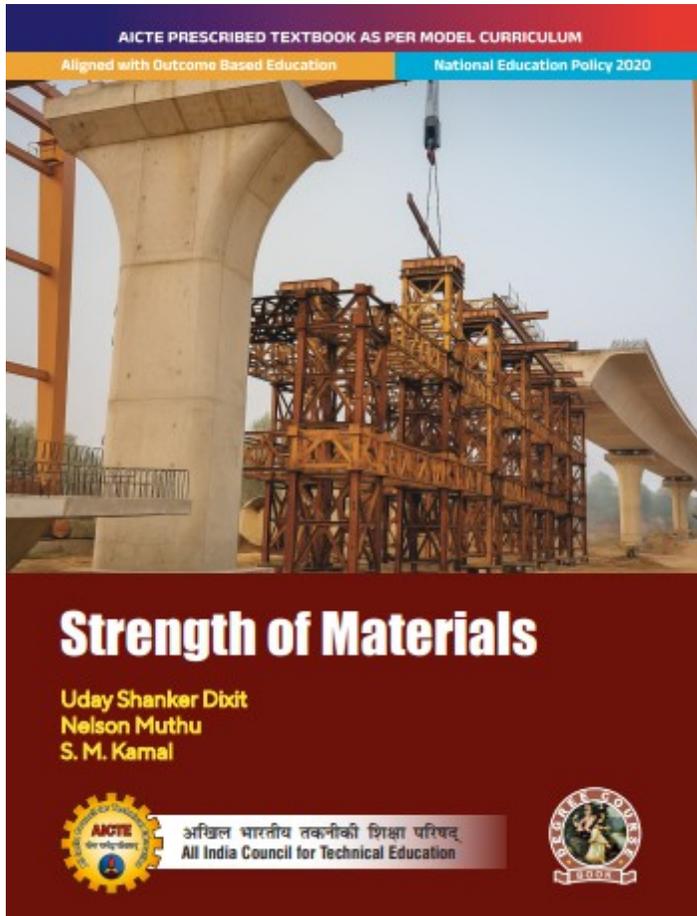


## Concrete Technology: Theory and Practice

|                         |   |
|-------------------------|---|
| <b>Author :</b>         | Sasankasekhar Mandal  |
| <b>ISBN 13 :</b>        | 978-93-55384-85-0   |
| <b>ISBN 10 :</b>        | 93-55384-85-8   |
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| <b>Country Origin :</b> | India   |

### Product Description

Concrete Technology: Theory and Practice



## Strength of Materials

|                         |  |
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| <b>Author :</b>         | Nelson Muthu   |
| <b>ISBN 13 :</b>        | 978-93-55386-02-1  |
| <b>ISBN 10 :</b>        | 93-55386-02-8  |
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**Strength of Materials** This book on Strength of Materials follows so-called engineer's approach. It is a suitable book for one-semester first course on Solid Mechanics or Strength of Materials for undergraduate students of engineering. The uniqueness of the book is that basic concepts have been covered in a lucid manner such that students can also be prepared to study a course on theory of elasticity (so-called mathematician's approach) in later classes. There are sufficient number of exercise problems in this book, which prepare students to become practicing engineer or a researcher. The book also contains multiple choice questions. Content of the book, examples and exercise problems have been optimized. Thus, the learning output to effort ratio can be enhanced with the support of this book. 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, QR Code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- 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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- Stresses and strains
- Compound stresses and strains
- Shear force and bending moment diagrams
- Bending stresses
- Shear stresses in beams
- Deflection and slope of beams
- Torsion of circular shafts
- Thin and thick cylinders and spheres

References for further learning CO And PO Attainment Table Index

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## Author

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**Dr. Uday Shanker Dixit** Professor, Department of Mechanical Engineering, Indian Institute of Technology Guwahati,

**Dr. Nelson Muthu** Assistant Professor, Department of Mechanical Engineering, Indian Institute of Technology Guwahati

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## Foundations of Robotics & Automation (Theory & Practice)

|                         |                                       |
|-------------------------|---------------------------------------|
| <b>Author :</b>         | A. B. Bhattacharya                    |
| <b>ISBN 13 :</b>        | 978-93-55388-00-1                     |
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| <b>Edition :</b>        | 1                                     |
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## Product Description

Salient Features of the Book : 1. Evolution of Robotics and Automation : Traces the fascinating of robotics from mechanical origins to cutting- edge automation. 2. Linear Algebra : Essential for solving complex robotics challenges using vectors, matrices , and transformations. 3. Calculus : A powerful tool for modeling and controlling robotic systems with precision and agility. 4. Differential Equations : Vital for understanding the dynamic behavior of robotic systems and automating processes. 5. Probability and statistics : Key for decision- making hypothesis testing, and driving machine learning in robotics. 6. Control Theory : Mastering the behavior of dynamic systems through feedback loops and stability analysis. 7. Kinematics and Dynamics : Analyses motion and force, essential for understanding robotic movement and interaction. 8. Machine Learning and AI : Explores intelligent systems that adapt, learn, and revolutionize automation. 9. Graph Theory : Solves real- world problems by analyzing networks and connections across domains. 10. Numerical Methods : Provides computational techniques for practical solutions to engineering challenges. 11. Signal processing : Interprets and analyses vast streams of data in the digital landscape for better decision -making. 12. Optimization : Focuses on finding the most efficient solutions for enhancing robotic performance. 13. Computer Vision : Enables robots to perceive and interpret their environment through AI- driven imaging. 14. Quantum Computing : Explores the future of robotics with quantum-level computation, unlocking unimaginable potential. This book offers a profound blend of theory and practice, charting the path toward the next generation of intelligent robotics & automation.

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**Chapter 1:** Evolution of Robotics and Automation. **Chapter 2:** Linear Algebra for solving Complex Problems of Robotics and Automation. **Chapter 3:** Calculus as the Mathematical Framework for Modeling, Analyzing and Controlling Robotics Systems. **Chapter 4:** Differential Equations in Modeling and Analyzing Various Aspects of Robotics and Automation. **Chapter 5:** Probability and Statistics as Hypothesis Testing, Experimental Design and Machine Learning. **Chapter 6:** Control Theory with the Study of controlling the behavior of Dynamics Systems. **Chapter 7:** Kinematics and Dynamics in the Study of Motion and the Behavior of Object and System. **Chapter 8:** Machine Learning and Artificial Intelligence as applied in Robotics and Automation. **Chapter 9:** Graph Theory in Solving Real-World Problems Across Different Domains. **Chapter 10:** Numerical Methods to obtain Practical Solutions by using Computational Algorithms and Techniques. **Chapter 11:** Signal Processing for analyzing Vast Data Generated in Digital World. **Chapter 12:** Optimization Process of finding the Best Possible Solution from a Set of Available Option. **Chapter 13:** Computer Vision as a Field of Artificial Intelligence. **Chapter 14:** Quantum Computing a Applied to Robotics and Automation.



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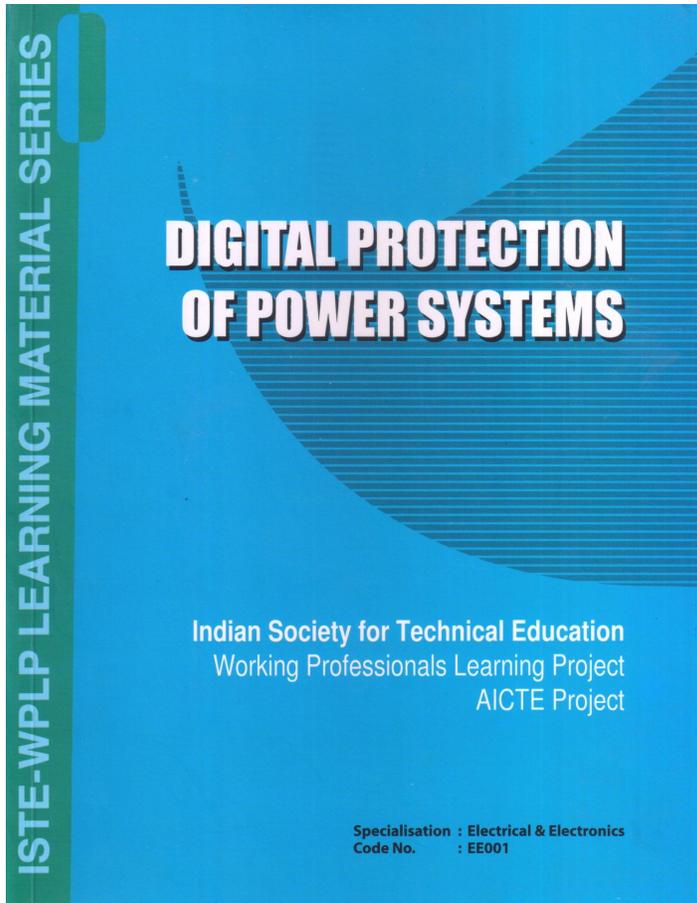
**Dr. Debasish Roy** is a highly accomplished and motivated professional with a robust academic background in Information Technology, including an MCA, MBA M. Tech, and PhD. He was currently the Director General( Railways) at a top-level position in the Indian Police Service ( IPS). He received the Indian Police Medal and President's Police Medal in 2000 and 2010. He is well known for pioneering contributions in land mobile radio systems. He is highly recognized for spearheading strategic planning and execution of security measures for the railways network, implementing innovative technologies to enhance railway security and counteract emerging day-to-day operations efficiently. He has provided expert guidance on implementing land mobile radio system for public safety agencies and conducted groundbreaking research in cryptanalysis, leading to development of advanced techniques for enhancing cyber security. He successfully led a team in designing and implementing secure communication protocols for land mobile radio systems, ensuring robust and encrypted communication. He has published numerous research papers in reputed conferences. He mentored and guided students at the postgraduate and doctoral levels. He has a proven track record of effective leadership and team management, besides all his strategies planning and execution in high-stakes environments. He received many honors and awards for his outstanding contributions to the field and was recognized for exceptional leadership and innovation in technology-driven security initiatives. He completed an Executive Program in Quantum Company and Machine Learning from IIT Delhi in 2023. He participated in the



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## Digital Protection of Power Systems

|                         |  |
|-------------------------|--|
| <b>Author :</b>         | K. Parthasarathy   |
| <b>ISBN 13 :</b>        | 978-93-55385-93-2  |
| <b>ISBN 10 :</b>        | 93-55385-93-5  |
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| <b>Type of book :</b>   | Paperback  |
| <b>Weight (g) :</b>     | 870.00   |
| <b>Year :</b>           | 2006   |
| <b>Language :</b>       | English  |
| <b>Publisher :</b>      | Khanna Publishing House  |
| <b>M.R.P :</b>          | Rs 648.00  |
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| <b>SKU :</b>            | 1725551522   |
| <b>Condition Type :</b> | New  |
| <b>Country Origin :</b> | India  |

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## Product Description

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The development in the area of power system protection has taken a tremendous leap forward in view of the technological advancements in electronics, especially with the introduction of new designs in microprocessor technology such as microcontrollers and Digital Signal Processors (DSPs). The subject on digital protection of power systems has become highly interdisciplinary encompassing various disciplines such as analog and digital electronics, digital signal processing, software development, communication technology, Artificial Intelligence (AI) techniques in addition to the study of power system subjects like electrical machines, power system analysis, simulation /modeling involving load flow, short circuit, stability problems etc. This book is intended for practicing engineers, planning and operation staff working in power plant, industries and electrical utilities to familiarize with the developments in the protection of power system devices and networks. Research in academic institutions, R&D establishments and teachers conduction advanced power system protection course in engineering college can use this book as reference. The chapters in the book have comprehensive coverage of various issues of power system protection, namely digital relay architecture, modelling techniques for simulation transient phenomena in power networks based on Electromagnetic Transient Package (EMTP), result of case studies for better appreciation of EMTP, Modelling procedures of current and voltage transformers, Capacitor Voltage Transformers (CVTs) and their transient behaviour, hardware and software considerations keeping in view of the latest advancements in hardware designs based on DSPs and microcontrollers and software development issues of various digital relaying algorithms based on signal processing techniques for implementing high speed and accurate relaying schemes, application of digital relaying for protection of major power system components like busbars, power transformers, synchronous and induction machines.

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