

Computer Networking and Data Communication

Author :	Sanjaya Shankar Tripathy
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Product Description

Computer Networking and Data Communication This book serves as an essential resource for students and professionals in Data communication and computer networking. Starting with protocols, the book gradually introduces the fundamental concepts of data communications, digital and analog transmission technology. Flow control, error control, routing and transmission control are presented as per the TCP-IP protocol architecture. It also gives a brief introduction to wireless communication. The subject matters are presented with required diagrams and suitable examples. The main concept of outcome-based education as per National Education Policy (NEP) 2020.

Salient Features:

- Content of the book is aligned with Unit outcomes, Course Outcome and program Outcomes.
- A blend of student and teacher-centric materials, presented as per the bottom-up approach of TCP-IP protocol.
- The book is enriched with example-based discussion for proper understanding of the related topic.
- Extensive use of figures and tables enhance understanding of the topics and the concepts.
- QR codes are given in the know more section in each chapter to explore beyond the syllabus
- A variety of exercise including multiple choice questions, short, long questions and numerical problems are provided at the end of each chapter.
- References are provided at the end of each chapter.



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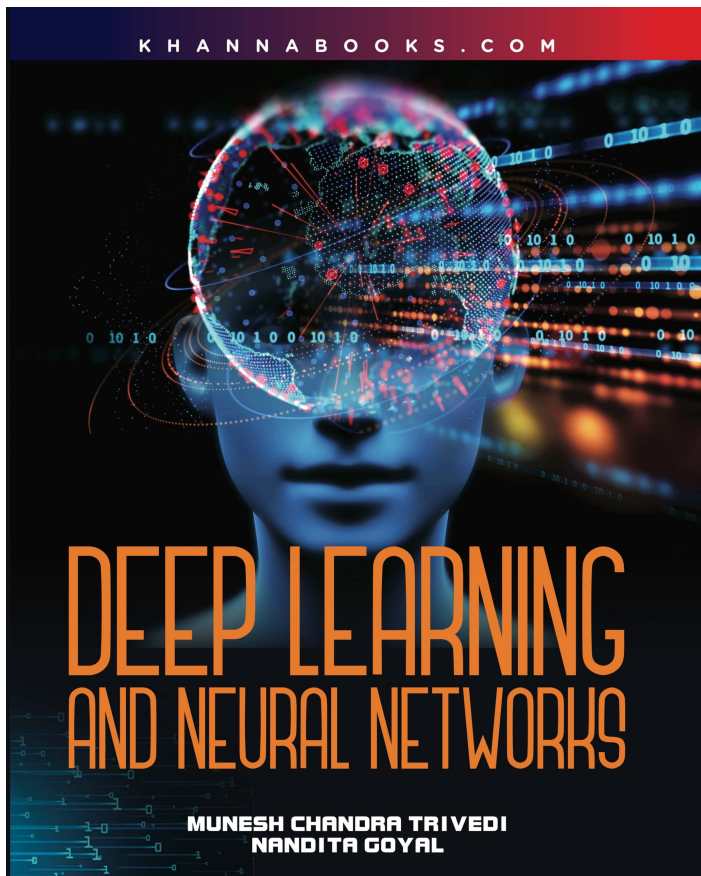
- Introduction to Data Communication
- Digital & Analog Transmission
- Wireless Communication
- Data Link Layer Technologies
- Network Layer Technologies
- Transmission Media & Transmission Control Protocol

References For Further Learning CO And PO Attainment Table Index

Author

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Deep Learning and Neural Networks

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Product Description

The focus on the theory, algorithms, implementations and practical applications of deep learning and neural networks makes An Insight into Deep Learning and Neural Networks useful for students of Computer Science and mathematics. The book introduces neural networks starting with a quick tour of the very first ANN architectures, then covering topics such as training nets, recurrent neural networks, and reinforcement learning. Where possible, an application -centric view is highlighted to provide an understanding of the practical uses of each class of techniques. Students of Computer Science and other related natural sciences will find it easy -to- read textbook, excellent for self -study, a high school level Knowledge of mathematics being the only pre-requisite to understand the material.

Salient Features of the Book: 1. The language is simple and easily understandable. 2. Includes hands-on approach for learning the subject. 3. Simple and intuitive discussions of neural networks and deep learning. 4. Provides mathematical details without losing the reader in complexity. 5. Include exercises and examples. 6. Discusses both traditional neural networks and recent deep learning models. 7. Covers both classical and modern models in deep learning. 8. An application-centric view is highlighted to provide an understanding of the practical uses of each class of techniques. 9. Greater focus is placed on modern deep learning ideas such as attention mechanisms, transformers, and pretrained language models.

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Chapter 1: Information Flow in a Neural Network, Understanding Basic Structure and ANN. **Chapter 2:** Training a Neural Network, How to Determine Hidden Layers, Recurrent Neural Network. **Chapter 3:** Convolution Neural Network, Image Classification and CNN. **chapter 4:** RNN and LSTMs, Applications of RNNs in Real World. **Chapter 5:** Creating and Deploying Networks using Tensor Flow and Keras.

Authors

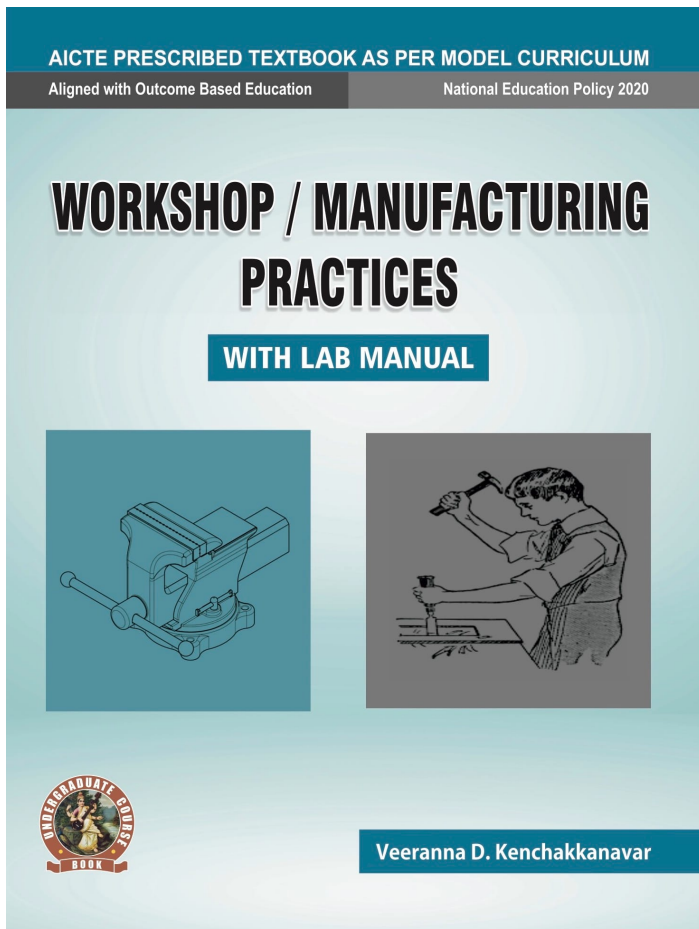
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Workshop / Manufacturing Practices (with Lab Manual)

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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 followed 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. Salient Features: 1. Manufacturing Methods 2. CNC Machining, Additive manufacturing 3. Fitting operations & power tools 4. Electrical & Electronic 5. Carpentry 6. Plastic moulding, glass cutting 7. Metal casting 8. Welding (arc welding & gas welding), brazing 9. Laboratory experiments and models 10. Appendices 11. References



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Chapter 2: CNC Machining, Additive manufacturing, Fitting operations & power tools.

Chapter 3: Electrical & Electronic.

Chapter 4: Carpentry, Plastic molding, glass cutting.

Chapter 5: Metal casting, welding (arc welding & gas welding), brazing.

Part- B: Workshop Practice Laboratory

Appendices

References

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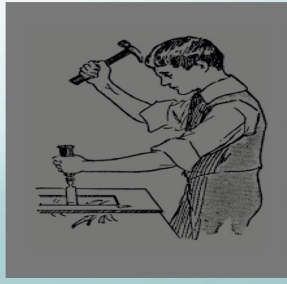
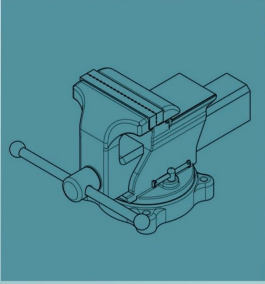
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परिणाम आधारित शिक्षा के साथ संरेखित

राष्ट्रीय शिक्षा नीति 2020

कर्मशाला / विनिर्माण अभ्यास

लैब मैनुअल सहित



वीरणा डी. केंचकनवर

Workshop / Manufacturing Practices (with Lab Manual)

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