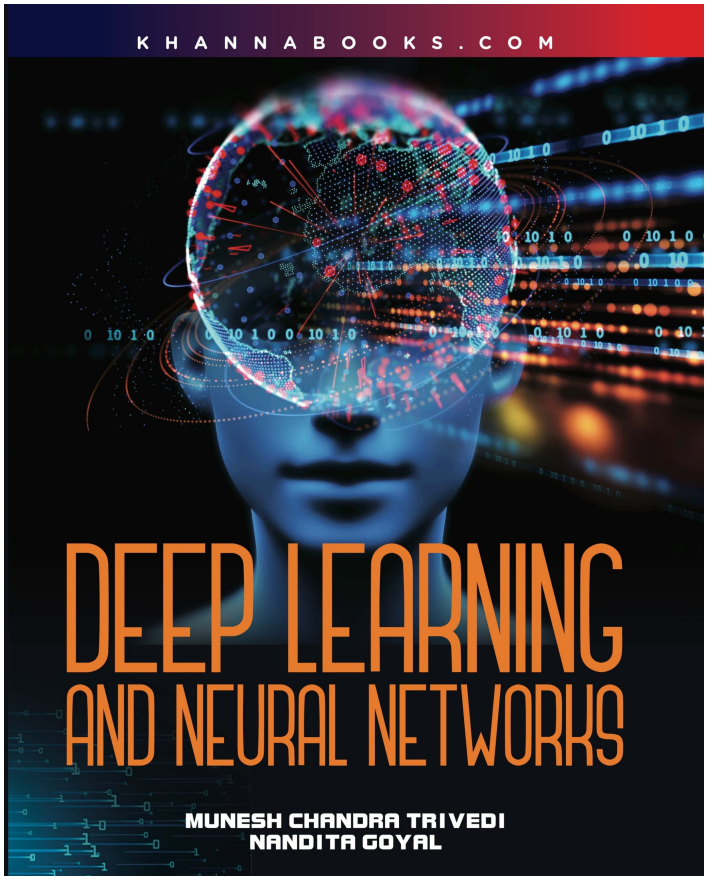

Deep Learning and Neural Networks

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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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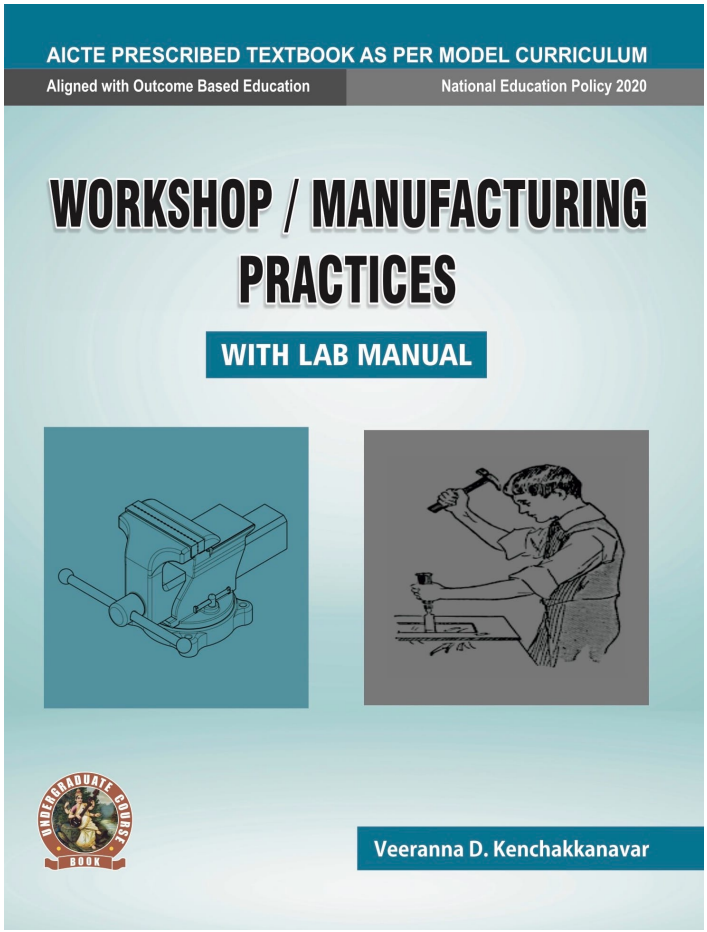

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Product Description

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 fallowed 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 mounding, 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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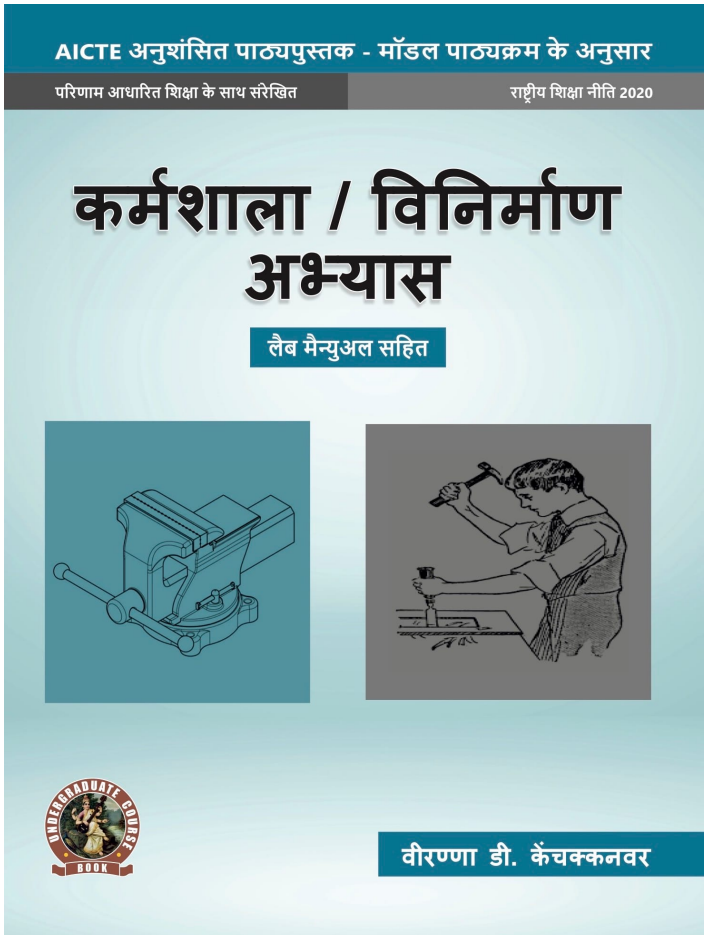

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