The background of the cover features a collage of engineering drawing tools and blueprints. At the top, there is a pencil, a compass, and a pen nib. Below them, various technical drawings and gears are visible. The title 'A Textbook of Engineering Drawing' is prominently displayed in the center. Below the title, there is a subtitle and the authors' names. At the bottom, there are several rolled-up blueprints, a calculator, a blue pen, and a pair of glasses.

A Textbook of
**Engineering
Drawing**

[With an introduction to AutoCAD® 2015]

Roop Lal • Ramakant Rana

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**A Textbook of
Engineering Drawing**
[With an Introduction to AutoCAD® 2015]

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Dedicated to my Wife
- **Roop Lal**

Dedicated to all my Teachers and Students
- **Ramakant Rana**

Foreword

Engineering drawing is the language by which, engineers communicate their ideas, forms, designs and detailed information about the products to fellow craftsmen as well to senior level management. Accurate knowledge of the principle of engineering drawing is important and has always been a challenge for the teachers of engineering institutions. I am delighted that Mr. Roop Lal and Mr. Ramakant Rana have taken the initiative and have written a book on this very important subject. Both the teachers had taught this subject in leading engineering institutions in the capital city of Delhi for a long period.

The authors have kept the presentation simple and themselves have prepared the drawings punctiliously, keeping the aptitude of students in mind. The book has a large number of worked examples from previous question papers of Delhi Technological University (DTU), Guru Gobind Singh Indraprastha University (GGSIPU) and other professional institutions, which I am sure will be very helpful to the students. The book also provides invaluable information about AutoCAD® 2015, so that students can learn to use AutoCAD® 2015 to solve engineering graphics problems.

I am confident that the book and the website would be received enthusiastically both by the teachers as well as the student community. I wish the publication all success.



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Preface

Any engineering student as well as working professional/engineer irrespective of the branch/field requires sound knowledge of Engineering Drawing in order to understand the basics and technical terms of Engineering Drawing. This book provides a comprehensive and practical overview of Engineering Drawing through simple and well-explained solved examples and exercises.

It covers the latest and complete syllabus of Engineering Drawing of all major Technical Universities across the country. The entire text is systematically divided into 17 chapters that contain relevant information on the fundamentals of Engineering Drawing. Mostly the First Angle of Projection has been followed in this book. The Third Angle of Projection has also been used in some solved problems purposely to explain the basic concepts to the students. The basic principles and applications have been explained in simple and systematic manner. The drawings and illustrations have been updated as per student's requirements. Bureau of Indian Standard (BIS) Drawing Codes and ISO standards are followed throughout the book. All dimensions are in mm.

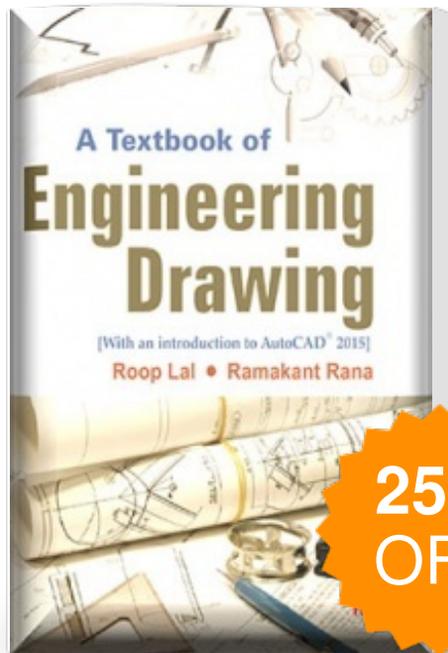
We are sure that this book will surely clarify all the concepts and doubts of B.E., B.Tech and Diploma level students.

This book contains a large number of solved problems in each chapter and the concepts are illustrated with neat and simplified illustrations to facilitate learning. Each chapter contains Problems for Practice and Review Questions at the end of each chapter. The solution to all these Practice and Review Problems are uploaded on the "www.engineersdrawing.com". To sum up, this is an examination-oriented and a student-friendly book with "Step-by-Step" approach containing valuable information on the subject.

If you have comments, suggestions, or corrections or want to opine, please email us at engineersdrawing@gmail.com or visit www.engineersdrawing.com.

**Roop Lal
Ramakant Rana**

A Textbook of Engineering Drawing



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