



# Textbook of Surveying

*C. Venkatramaiah*

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## **Textbook of Surveying** C. Venkatramaiah

This comprehensive textbook on surveying covers, in a single volume, all the topics prescribed at the undergraduate level in civil engineering in India. It presents the various methods of surveying and the underlying concepts of surveying, including modern and advanced surveying techniques and instruments such as Total Station. The narrative is enlivened with glimpses of the historical development of the subject. The book is well illustrated with diagrams and is replete with worked-out examples and exercises. New to the revised edition are discussions on trilateration, methods of determination of time, longitude and latitude of a place, azimuth of a survey line, Total Station, geographic information system and global positioning system (GPS).

Key features:

Forms a core textbook for undergraduate students of civil engineering

Covers Surveying-I, Surveying-II and Advanced Surveying in a single volume

Concepts of surveying explained lucidly with several illustrative examples

Emphasizes details of the surveying methods rather than the constructional and other intricate details of surveying instruments

Questions and practice problems included at the end of every chapter

Includes numerous objective-type questions with answers

Useful for examinations such as AMIE, GATE and IES

Contents:

Foreword Preface Introduction Survey Measurements and Errors Angles, Bearings and Azimuths Chain Surveying Compass Surveying Plane Table Surveying Levelling and Contouring Minor Instruments Theodolite Surveying Areas and Volumes Tacheometry Curve Ranging Triangulation and Baseline Measurement Trigonometric Levelling Hydrographic Surveying Construction Surveys Certain Special and Modern Instruments Other and Modern Methods of Surveying

Appendix A: SI Units Appendix B: List of Symbols Answers to Numerical Problems Objective Questions in Surveying Answers to Objective Questions

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