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A TEXT BOOK OF SURVEYING AND LEVELLING

[For Degree, Diploma Students; Practicing Engineers and Surveyors]

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PREFACE TO THE ELEVENTH EDITION

This edition of the treatise is thoroughly revised, edited and recomposed. Latest questions of various competitive examinations and other universities have been added to respective chapters. Besides this new chapters on Remote Sensing System and Geographical Information System have also been added at the end, to meet the requirements of students. Besides, this many Objective Type and Multi Choice Questions (M.C.Q.) have been added throughout the text.

It is hoped that the book will be further useful to B.Sc. Engg., Degree, Diploma students of various Indian Universities and Board of Technical Education as well as it will serve as a reference for field engineers and surveyors.

The author is thankful to the readers who had sent their valuable suggestions/comments for the improvement of this edition.

The author shall be grateful if any shortcomings in the text or contents are brought to his notice. Any suggestions/criticism for the improvement of the edition will be gratefully acknowledged.

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T.H.A. Sahibabad (Gzb).
The author has made an attempt to write this textbook after twenty-five years experience in the field of ‘Surveying and Teaching’. This book is primarily written for the students of A.M.I.E. (India), Degree and Diploma classes, but it will also be useful as a reference book for practicing engineers and surveyors.

While writing this book, the requirements of all the students regarding the latest trend of examinations, have been kept in view. The subject matter has been divided into sixteen chapters which are systematically arranged and discussed in detail with elaborate use of illustrations. Important questions from examination papers of A.M.I.E. (India), Universities and State Technical Boards, are given as solved examples in a logical sequence. At the end of each chapter, large number of objective type questions, essay type questions and numerical problems, have been added for the students to solve them independently and then to compare their results with those given in the book.

An attempt has been made to explain the method of contouring with an Indian tangent clinometer and the method of tacheometric planetabling and a solution of three points problem by making tacheometric observations in the respective chapters.

Though, every effort has been made to avoid composing mistakes, a few of them might have occurred due to over-sight. The author will feel high obliged if such errors and omissions are brought to his notice. Suggestions and criticisms for the improvement of this textbook shall be gratefully acknowledged and incorporated in the revised edition.

The author expresses his sincere thanks to Shri R.N. Saxena, Principal, Third Boys, Polytechnic, Delhi for encouraging him to write this book.


The author also expresses his sincere gratitude to the Surveyor General of India, under whose guidance, the author took comprehensive training in different branches of surveying and attained practical experience of supervision and execution of various projects in different climatic conditions all over India.

In the end, the author expresses his sincere thanks to Sh. R. C. Khanna for rendering his valuable suggestions.

November, 1979

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A Text Book of Surveying and Levelling

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