



Surveying (7th Edition)

By A. Bannister, Stanley Raymond, Raymond Baker

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This latest edition of Bannister, Raymond and Baker's classic text has been fully revised and updated to reflect the changing nature of the subject and its technology.

The principles and equipment behind land surveying are covered clearly and succinctly, with a breadth and authority unmatched in other books. Particularly strong attention is given to important topics such as setting out, electromagnetic distance measurement, and the treatment of errors. Extensive worked examples and diagrams support the text throughout, and the reader is further assisted by comprehensive end-of-chapter exercises.

The seventh edition of Surveying provides an essential text for students of building, civil and structural engineering and all courses, such as mining and geography, which contain an element of surveying. Practising professionals will also find it an invaluable field book and reference work.

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Editorial Review

From the Inside Flap

In this edition of Surveying, as in earlier editions, our aim has been to produce a text that gives an up-to-date and concise treatment of the subject. Developments in the 1980s of electronic instruments and computer processing of data caused us to make radical alterations to the format of the sixth edition of the book.

In this new edition the publisher has taken the opportunity of modernizing the page layout of the book, but we have endeavoured to retain the revised format of the contents, updating sections where new and innovative instruments and techniques have developed. One area of major change in the 1990s has been the introduction of satellite surveying, GPS and GLONASS, into the realms of everyday surveying. The importance of these techniques has encouraged us to introduce a new chapter dedicated to the methods and equipment of satellite surveying, and some traditional techniques, such as plane table surveying and subtense tacheometry, have been removed from the text.

The publishers contacted a number of lecturers in universities and colleges, at home and abroad, asking them to appraise our proposals for this edition, and we received much helpful advice. We have tried to blend this with our thoughts, and we hope that our goal has been effectively achieved in that the text satisfies the requirements not only of students and others engaged in the construction industry but also of those with an interest in this subject, such as mining engineers, geographers and archaeologists.

When preparing the manuscript we have been indebted to the advice of our academic colleagues mentioned in the Preface; unfortunately their names were not disclosed, and accordingly we trust, therefore, that they will accept our gratitude as a group. We wish to thank the following for permission to reproduce questions from their examination papers: Engineering Council, Institution of Civil Engineers, Institution of Structural Engineers, University of London, University of Salford. We have also appreciated the assistance of the many instrument manufacturers who supplied catalogues and other details about their products and photographs for inclusion in the text: Spectra-Precision Ltd; Carl Zeiss (Oberkochen) Surveying Ltd; Leica UK Ltd; Sokkia UK Ltd; Spectra Physics Ltd; Valeport Marine Scientific Ltd and Stanley Tools.

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Arthur Bannister Stanley Raymond Raymond Baker July 1997

From the Back Cover

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Features new to this edition include:

- New chapter on satellite positioning systems
- New photographs and instrument profiles, highlighting the latest equipment
- New revised material throughout, including coverage of the surveying of existing buildings
- New improved style and presentation to increase the text's clarity and accessibility

The seventh edition of the **Surveying** provides an essential text for students of building, civil and architectural engineering and all courses, such as mining and geography, which contain an element of surveying. Practicing professionals will also find it an invaluable field book and reference work.

About the Author

Raymond Baker lectures in Land Surveying in the Department of Civil and Environmental Engineering at the University of Salford.

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