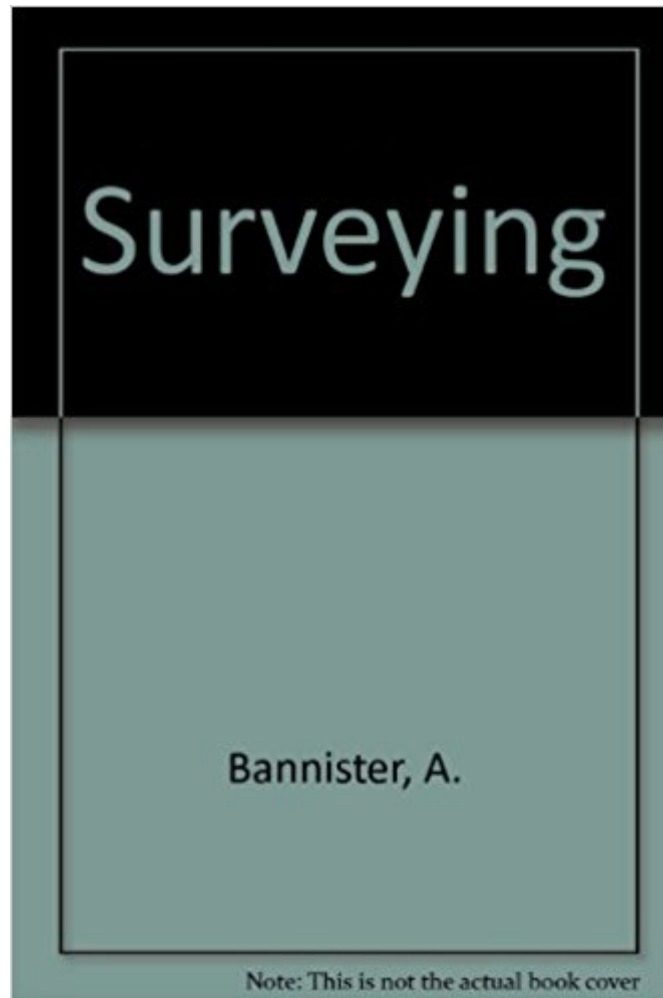




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# Surveying



## Synopsis

This sixth edition provides a direct approach to the principles of surveying with firm emphasis placed on modern equipment and techniques. The text has undergone considerable re-writing and updating throughout. There is a completely new chapter which looks at the principles of setting out, construction lasers, types of markers and their uses. A chapter on the theodolite emphasizes the use of glass arc instruments and incorporates advances in electronic instrumentation and the ware also contains new worked examples and problems taken from recent exam papers. The book is aimed at students taking degrees in Civil Engineering, BTEC, RICS and similar professional examinations. An ELBS/LPBB edition is available.

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## Customer Reviews

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. We are grateful to the following for permission to reproduce copyright material: Carl Zeiss (Oberkochen) Surveying Ltd for Figs 3.25, 4.14, 13.9, 13.13; Spectra-Precision Ltd for Figs 5.9, 5.11, 5.12, 5.13, 6.12, 12.16; Leica UK Ltd for Figs 2.29, 3.21, 3.26, 3.27, 4.4, 4.5, 4.6, 4.7, 4.10, 4.15, 4.16, 5.5, 5.6, 5.8, 5.16, 6.3, 6.8, 6.9, 6.10, 6.11, 7.31, 10.17, 10.18, 13.8, 13.12; Stanley Tools for Figs 2.2, 2.3; Sokkia UK Ltd for Figs 5.10, 5.15, 10.11; SpectraPrecision Ltd for Fig. 10. 12; Steanne Solutions for Fig. S. 14; Valeport Marine Scientific Ltd for Figs 12.4, 12.17; MDL for Fig. 5.17; Racal Survey Inc. for Fig. 6.2; Daido Enterprises Corporation for Fig. 2.5; Tamaya Technics Inc. for Fig. 9.3; Kelvin Hughes Ltd for Fig. 12.7. British Standards Institution for Table 10.1. (Extracts from British Standards BS 5606 :1990 are reproduced with the permission of BSI. Complete copies can be obtained from BSI, Customer Services, 389 Chiswick High Road, London, W4 4AL.) While every effort has been made to trace the owners of copyright material, in a few cases this may have proved impossible, and we take this opportunity to offer our apologies to any copyright holders whose rights we may have unwittingly infringed. We have been unable to trace Hansa Luftbild of Munich in relation to Figure 13.26, and would be grateful for any information that will enable us to do so. Arthur Bannister Stanley Raymond Raymond Baker July 1997

The 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. 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.

Bannister's book updated again and better than ever. I still keep the older versions for comparison. This is my main reference book even though it is of British origin

This text is a continuation of the high quality of earlier editions. It covers modern methods, without completely removing some of the more useful older methods of work. It is delivered in a compact form, without any loss of depth. Also, it is at least \$14 cheaper than any comparable US surveying text. Well-tested methods are provided here, and the text is sufficiently comprehensive to cover several courses at a range of different levels. This would cover a great deal of what is needed for an associates degree program, and the foundation of a Bachelors program (1.5 years of the main program). This is far better than most books in this field, and it is a better book. Being a British book, there are a few limitations for the US market. The book is metric, which will pain a few people in the US who can't handle this (but then why are they in the surveying game?). The terminology is British (e.g. 'staff' vs 'rod'), but this is a relatively minor concern, and will expose students to the idea that Surveying is a multi-national discipline, especially important with FIG being based in the US at the moment. There is no coverage of cadastral issues, including PLSS, but that can be obtained from other works, and doesn't apply to all parts of the US, as it happens. Highly recommended. It is the OSU text for Surveying and Geomatics Engineering students.

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