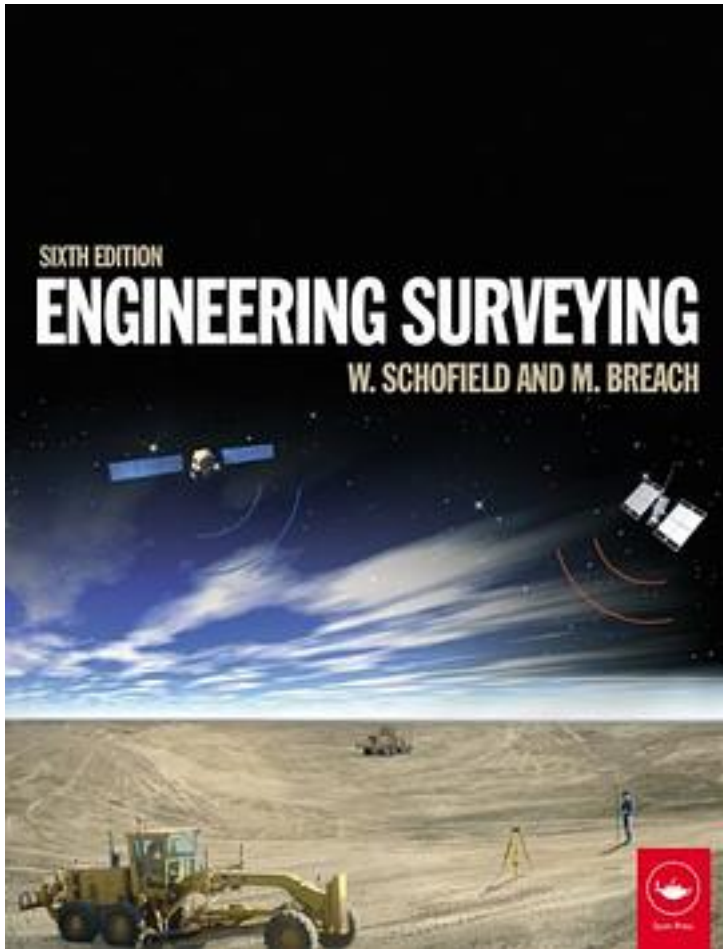


# Engineering Surveying



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Engineering surveying involves determining the position of natural and man-made features on or beneath the Earth's surface and utilizing these features in the planning, design and construction of works. It is a critical part of any engineering project. Without

an accurate understanding of the size, shape and nature of the site the project risks expensive and time-consuming errors or even catastrophic failure. "Engineering Surveying, 6th Edition" covers all the basic principles and practice of this complex subject and the authors bring expertise and clarity. Previous editions of this classic text have given readers a clear understanding of fundamentals such as vertical control, distance, angles and position right through to the most modern technologies, and this fully updated edition continues that tradition. This sixth edition includes: an introduction to geodesy to facilitate greater understanding of satellite systems; a fully updated chapter on GPS, GLONASS and GALILEO for satellite positioning in surveying; all new chapter on the important subject of rigorous estimation of control coordinates; and, detailed material on mass data methods of photogrammetry and laser scanning and the role of inertial technology in them. With many worked examples and illustrations of tools and techniques, "Engineering Surveying" is essential reading for students and professionals alike involved in surveying, civil, structural and mining engineering, and related areas such as geography and mapping. Wilf Schofield was formerly Principal Lecturer in Civil Engineering at Kingston University; Mark Breach is the Principal Lecturer in Engineering Surveying at Nottingham Trent University and serves on technical committees of the RICS and ICES. This title presents a comprehensive introduction to surveying for engineers. In this title, all basic and advanced techniques are explained and illustrated with worked examples. It offers an expanded coverage of modern instrumentation and satellite positioning.

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