

## **Preface**

This book introduces surveying and mapping as a study of geospatial measurements, spatial data generation and representation. It explores the principles and practices of spatial science disciplines including land surveying, cartography, and photogrammetry. It introduces the Global Positioning System (GPS), remote sensing, Geographical Information Systems (GIS) as parts of modern geographical and engineering studies.

The book is written for wide range of students who are undertaking general and specialized science programs that utilizes spatial data. The book is also suitable for education students who are pursuing teaching roles at secondary and university levels and help those wishing to get employed and practice as entry level surveyors, GIS technicians and cartographers. Moreover, this book is a foundation for more specialized surveying and mapping sciences such as Geomatics, LIDAR and RADAR remote sensing, Web Mapping, and digital photogrammetry.

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