

I'm not robot!

Exploratory work is essential to provide a clear picture of the problem and to determine the scope of the project. The following questions are intended to guide the student in this process.

129. When should sketches be made instead of just recording data?  
 Sketches should be made instead of recording data to record observations that are difficult to describe in words. They also serve as a reminder of the work performed and any unusual conditions that arise during the project.

130. Justify the requirement to list in a field book the make and serial number of all instruments used on a survey.  
 Listing the make and serial number of the instruments used in the survey may help locate instruments that are lost or damaged during the project.

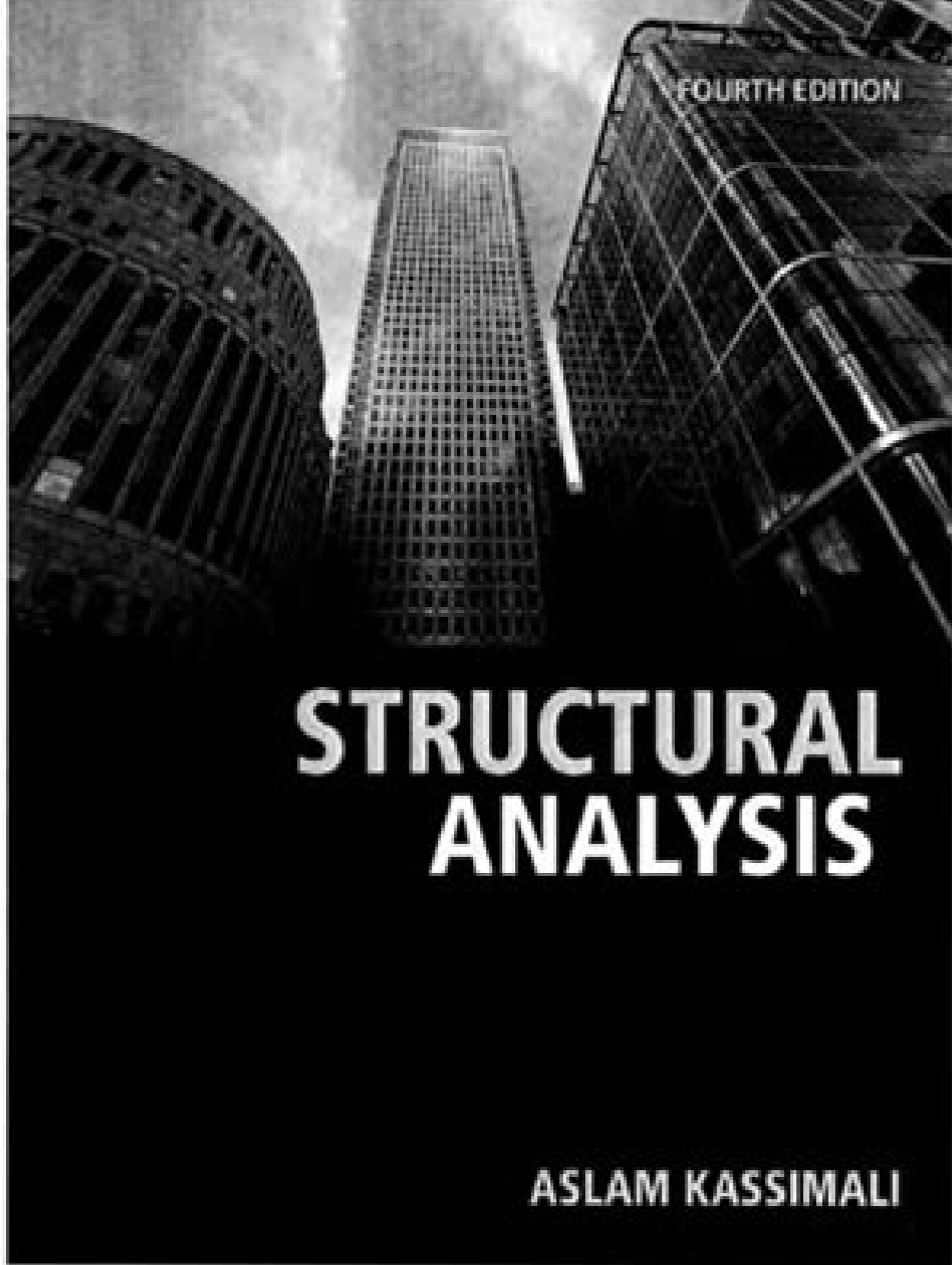
131. Discuss the advantages of surveying methods that use instruments with several different types of instruments.  
 The ability of surveying methods to accommodate with several different types of instruments allows the surveyor to match the specific conditions of the project with the instrument that is best suited to the job. Total stations, digital levels, and GNSS receivers can all be used in a single project.

132. Discuss the advantages of surveying methods that use instruments with several different types of instruments.  
 From Section 2.11: "The major advantages of automatic data collection systems are that they reduce the number of field measurements, reduce the amount of data to be processed, and do the data processing, display, and archiving of the field notes in the office in a more efficient manner. However, the purchase of automatic data collection systems is expensive, and the systems are not always as reliable as manual systems. As an example, the data for a survey can be corrupted by a power outage and the system cannot be reloaded. The surveying instrument manufacturer should be consulted for the 'know-how' of the system."

133. Search the Internet and find at least two other related to:  
 a. Manufacturers of surveying instruments.  
 b. Manufacturers of total stations.  
 c. Manufacturers of global navigation satellite system (GNSS) receivers.  
 Answer: Search: total station, GNSS receiver.

134. What advantages are offered to field personnel if the survey controller provides a map of the survey?  
 The survey field personnel can view what has been accomplished and look for areas of the map that need more attention.

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