

Chapter 02 – Leveling

2.1 Compute the error due to curvature and refraction for the following distances:

- (a) 500 ft $(c+r) = 0.0206 \times (500/1000)^2 = 0.005$ ft
 (b) 4,000 ft $(c+r) = 0.0206 \times (4)^2 = 0$ ft
 (c) 300 m $(c+r) = 0.0675 \times 0.300^2 = 0.006$ m
 (d) 2.2 mi $(c+r) = 0.574 \times 2.2^2 = 2.78$ ft
 (e) 2,800 m $(c+r) = 0.0675 \times (2.8)^2 = 0.529$ m
 (f) 3 km $(c+r) = 0.0675 \times (3)^2 = 0.608$ m

2.2 Determine the rod readings indicated on the foot and metric rod illustrations in Figure 2-32. The foot readings are to the closest 0.01 ft, and the metric readings are to the closest one-half or one-third cm.

Rod A	i 1.90	ii 1.73	iii 1.57	iv 1.21	v 1.03 (1.04)
Rod B	i 1.185	ii 1.150	iii 1.040	iv 1.000	v 0.930
Rod C	i 3.06	ii 2.85 (2.84)	iii 2.57 (2.56)	iv 2.21	v 1.92
Rod D	i 1.145	ii 1.065	iii 1.000	iv 0.935	v 0.880

2.3 An offshore drilling rig is being towed out to sea. What is the maximum distance away that the navigation lights can still be seen by an observer standing at the shoreline? The observer's eye height is 5' 0" and the uppermost navigation light is 147 ft. above the water.

$$5.00 = .574 K_1^2 \quad K_1 = \sqrt{5.00 / .574} = 2.95 \text{ miles}$$

$$147 = .574 K_2^2 \quad K_2 = \sqrt{147 / .574} = 16.00 \text{ miles}$$

$$\text{Maximum visibility distance} = 18.95 \text{ miles}$$

2.4 Prepare a set of level notes for the survey in Figure 2-33. Show the arithmetic check.

STATION	BS	HI	IS	FS	ELEVATION
BM #50	1.27	390.34			389.07
TP #1	2.33	387.76		4.91	385.43
TP #2				6.17	381.59
	BS = 3.60			FS = 11.08	

$$389.07 + 3.60 = 392.67 - 11.08 = 381.59 \text{ check}$$

2.5 Prepare a set of profile leveling notes for the survey in Figure 2-34. In addition to computing all elevations, show the arithmetic check and the resulting error in closure.

STATION	BS	HI	IS	FS	ELEVATION
BM #61	4.72	401.46			396.74
0+00			4.42		397.04
0+50			4.30		394.16
TP #1	5.11	404.56		2.01	399.45
1+00			4.66		399.90
1+50			3.98		400.58
1+75			1.20		403.36
TP #2				1.80	402.76
	BS = 9.83			FS = 3.81	

$$E = -0.02 \text{ m (small error – no need for adjustments)}$$

$$396.74 + 9.83 = 406.57 - 3.81 = 402.76 \text{ check}$$

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Table of Contents Surveying Principles And Applications 9th Edition Solution

1. Understanding the eBook Surveying Principles And Applications 9th Edition Solution
 - The Rise of Digital Reading Surveying Principles And Applications 9th Edition Solution
 - Advantages of eBooks Over Traditional Books
2. Identifying Surveying Principles And Applications 9th Edition Solution
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Surveying Principles And Applications 9th Edition Solution
 - User-Friendly Interface
4. Exploring eBook Recommendations from Surveying Principles And Applications 9th Edition Solution
 - Personalized Recommendations
 - Surveying Principles And Applications 9th Edition Solution User Reviews and Ratings
 - Surveying Principles And Applications 9th Edition Solution and Bestseller Lists
5. Accessing Surveying Principles And Applications 9th Edition Solution Free and Paid eBooks
 - Surveying Principles And Applications 9th Edition Solution Public Domain eBooks
 - Surveying Principles And Applications 9th Edition Solution eBook Subscription Services
 - Surveying Principles And Applications 9th Edition Solution Budget-Friendly Options
6. Navigating Surveying Principles And Applications 9th Edition Solution eBook Formats
 - ePub, PDF, MOBI, and More
 - Surveying Principles And Applications 9th Edition Solution Compatibility with Devices
 - Surveying Principles And Applications 9th Edition Solution Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Surveying Principles And Applications 9th Edition Solution
 - Highlighting and Note-Taking Surveying Principles And Applications 9th Edition Solution
 - Interactive Elements Surveying Principles And Applications 9th Edition Solution

8. Staying Engaged with Surveying Principles And Applications 9th Edition Solution
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Surveying Principles And Applications 9th Edition Solution
9. Balancing eBooks and Physical Books Surveying Principles And Applications 9th Edition Solution
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Surveying Principles And Applications 9th Edition Solution
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Surveying Principles And Applications 9th Edition Solution
 - Setting Reading Goals Surveying Principles And Applications 9th Edition Solution
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Surveying Principles And Applications 9th Edition Solution
 - Fact-Checking eBook Content of Surveying Principles And Applications 9th Edition Solution
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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