#### PROBLEM 1:

A horizontal collimation test is performed on an automatic level with the instrument set up at 1, the rod reading at A was 5.63 ft. and to B was 5.9 ft. After moving and leveling the instrument at point 2, the rod reading to A was determined to be 5.310 ft. and to B is 5.560 ft. What is the collimation error of the instrument and the corrected reading to A from point 2?

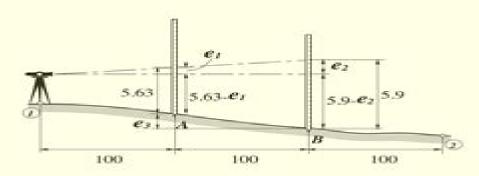
#### Solution:

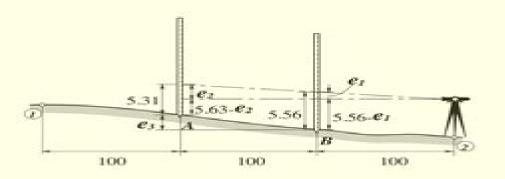
$$5.63 - e_1 + e_3 = 5.9 - e_2$$
  
but  $e_2 = 2 e_1$   
 $e_3 = 5.9 - (2e_1) + e_1 - 5.63$   
 $e_3 = 0.27 - e_1$ 

$$5.31 - e_2 + e_3 = 5.56 - e_1$$
  
 $5.31 - 2e_1 + e_3 = 5.56 - e_1$   
 $e_3 = e_1 + 0.25$   
 $0.27 - e_1 = e_1 + 0.25$   
 $2e_1 = 0.02$   
 $e_2 = 0.01$  ft. collimation

Rod reading to A from point 2:

$$R_A = 5.31 - e_2$$
  
 $R_A = 5.31 - 2e_1$   
 $R_A = 5.31 - 2(.01)$   
 $R_A = 5.29 \text{ ft.}$ 





# **Surveying Practice**

## **Roman Wölfel**

#### **Surveying Practice:**

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Surveying and Mapping ,1963 Professional Practice for Quantity Surveyors in the 21st Century Andrew Ebekozien, Clinton Aigbavboa, 2024-09-05 This book covers developing trends and changes occurring in the quantity surveying profession It begins by explaining the construction industry structure followed by the quantity surveying practice modalities professional ethics roles of regulatory bodies continuous professional development and code of professional conduct of quantity surveying practice Further topics covered include international construction contract administration financial management and liquidated and ascertained damages as applicable to the construction industry Features Considers the structure of the construction industry and the interrelationship of professionals in the built environment Provides a

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