

# HIGHWAY ENGINEERING SOLVED PROBLEM

The radius of a horizontal circular curve is 80m. The design speed is 45 kmph and the design co-efficient of lateral friction is 0.15. Determine.

- i) The super elevation required if full lateral friction is assumed to develop.  
 $e = f$
- ii) Co-efficient of friction needed if no super elevation is provided.  
 $e = 0$   $f$

Given  $R = 80\text{m}$   $V = 45\text{ kmph}$   $f = 0.15$

$$\text{i) } e + f = \frac{V^2}{127R} \quad e + 0.15 = \frac{45^2}{127 \times 80} \quad e = \underline{\underline{0.0493}}$$

$$\text{ii) } e = 0 \quad 0 + f = \frac{V^2}{127R} = f = \underline{\underline{0.199}}$$

## Super Elevation and Co-efficient of Friction

# Solved Problem Highway Engineering

**Michael Brown**



**Solved Problem Highway Engineering:**

## **Solved Problem Highway Engineering** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Solved Problem Highway Engineering**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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