

# 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

**JL Elias**



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