

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

Jianjun Gao



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