

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

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

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

Super Elevation and Co-efficient of Friction

Solved Problem Highway Engineering

Lauren Gardner



Solved Problem Highway Engineering:

Ignite the flame of optimism with is motivational masterpiece, Fuel Your Spirit with **Solved Problem Highway Engineering** . In a downloadable PDF format (*), this ebook is a beacon of encouragement. Download now and let the words propel you towards a brighter, more motivated tomorrow.

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