

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

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

$$\text{ii) } e = 0 \quad 0 + f = \frac{V^2}{127R} = f = \frac{45^2}{127 \times 80} = \underline{\underline{0.199}}$$

Super Elevation and Co-efficient of Friction

Solved Problem Highway Engineering

RJ Alexander



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Table of Contents Solved Problem Highway Engineering

1. Understanding the eBook Solved Problem Highway Engineering
 - The Rise of Digital Reading Solved Problem Highway Engineering
 - Advantages of eBooks Over Traditional Books
2. Identifying Solved Problem Highway Engineering
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Solved Problem Highway Engineering
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solved Problem Highway Engineering
 - Personalized Recommendations
 - Solved Problem Highway Engineering User Reviews and Ratings
 - Solved Problem Highway Engineering and Bestseller Lists
5. Accessing Solved Problem Highway Engineering Free and Paid eBooks
 - Solved Problem Highway Engineering Public Domain eBooks
 - Solved Problem Highway Engineering eBook Subscription Services
 - Solved Problem Highway Engineering Budget-Friendly Options
6. Navigating Solved Problem Highway Engineering eBook Formats

- ePub, PDF, MOBI, and More
 - Solved Problem Highway Engineering Compatibility with Devices
 - Solved Problem Highway Engineering Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Solved Problem Highway Engineering
 - Highlighting and Note-Taking Solved Problem Highway Engineering
 - Interactive Elements Solved Problem Highway Engineering
 8. Staying Engaged with Solved Problem Highway Engineering
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solved Problem Highway Engineering
 9. Balancing eBooks and Physical Books Solved Problem Highway Engineering
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solved Problem Highway Engineering
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Solved Problem Highway Engineering
 - Setting Reading Goals Solved Problem Highway Engineering
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Solved Problem Highway Engineering
 - Fact-Checking eBook Content of Solved Problem Highway Engineering
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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