

HIGHWAY AND RAILROAD DEVELOPMENT: PLANNING AND DESIGN

Grade

$$\text{Slope} = \frac{\text{Rise}}{\text{Run}} \times 100$$

Annual Average Daily Traffic (AADT)

$$\text{AADT} = \frac{\sum \text{ADT}}{365}$$

Design Hourly Volume

$$\text{DHV} = \frac{\text{PHV}}{\text{PHF}} = 3000$$

PHV = Peak hour volume

PHF = Peak hour factor

K = ratio

$$K = \frac{\text{DHV}}{\text{AADT}}$$

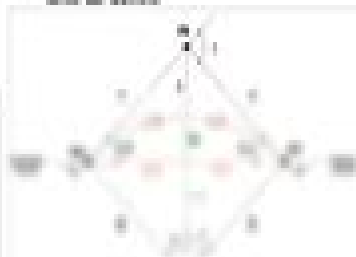
10% - 15% RURAL

15% - 17% URBAN

GEOMETRIC DESIGN FOR HIGHWAYS AND RAILWAYS

Horizontal Curves

SIMPLE CURVE



1. Point of intersection, intersection of tangents
2. Point of curvature, beginning of the curve
3. Point of tangency, end of the curve
4. Length of the curve
5. Stationing
6. Stationing at PC
7. Stationing at PT
8. Stationing at PVI
9. Stationing at any point on the curve
10. Stationing at any point on the tangent
11. Stationing at any point on the curve
12. Stationing at any point on the tangent
13. Stationing at any point on the curve
14. Stationing at any point on the tangent
15. Stationing at any point on the curve
16. Stationing at any point on the tangent
17. Stationing at any point on the curve
18. Stationing at any point on the tangent
19. Stationing at any point on the curve
20. Stationing at any point on the tangent

Degree of Curve: 1/2 Definition



GEOMETRIC DESIGN FOR HIGHWAYS AND RAILWAYS

Degree of Curve: 1/2 Definition

$$\text{Degree of Curve} = \frac{180}{\pi} \times \frac{1}{R}$$

$$R = \frac{180}{\pi \times \text{Degree of Curve}}$$

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Length of the Curve (L)

$$L = \frac{\pi R \Delta}{180}$$

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Tangent Distance (T)

$$T = R \tan \frac{\Delta}{2}$$

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$$T = R \tan \frac{\Delta}{2}$$

Chord Distance (C)

$$C = 2R \sin \frac{\Delta}{2}$$

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Middle Ordinate (M)

$$M = R \left(1 - \cos \frac{\Delta}{2} \right)$$

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External Distance (E)

$$E = R \left(\sec \frac{\Delta}{2} - 1 \right)$$

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Intersection Angle

$$\Delta = \text{Intersection Angle}$$

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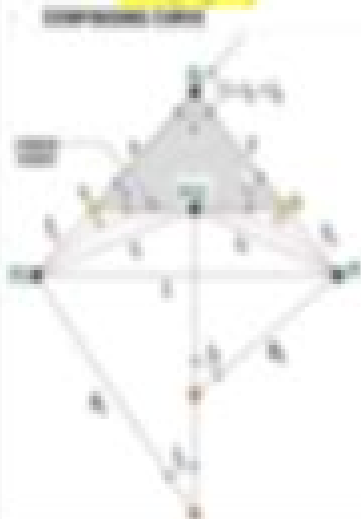
$$\Delta = \text{Intersection Angle}$$

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$$\Delta = \text{Intersection Angle}$$

$$\Delta = \text{Intersection Angle}$$



GEOMETRIC DESIGN FOR HIGHWAYS AND RAILWAYS

PC - Point of compound curvature

VC - vertical of the first curve

VT - vertical of the first curve

T - common tangent

R = 100 - 1

REVERSE CURVE



PC - Point of compound curvature

Vertical Curves

VPI - vertical point of intersection, intersection of tangents

VPC - vertical point of curvature, beginning of the curve

VPT - vertical point of tangency, end of the curve

L - length of parabolic curve

h₁ - horizontal distance from PC to the higher (lower) point of the curve

h₂ - horizontal distance from PT to the higher (lower) point of the curve

h₃ - horizontal distance from VPI to the higher (lower) point of the curve

h₄ - horizontal distance from VPI to the higher (lower) point of the curve

h₅ - horizontal distance from VPI to the higher (lower) point of the curve

h₆ - horizontal distance from VPI to the higher (lower) point of the curve

h₇ - horizontal distance from VPI to the higher (lower) point of the curve

h₈ - horizontal distance from VPI to the higher (lower) point of the curve

h₉ - horizontal distance from VPI to the higher (lower) point of the curve

h₁₀ - horizontal distance from VPI to the higher (lower) point of the curve

h₁₁ - horizontal distance from VPI to the higher (lower) point of the curve

h₁₂ - horizontal distance from VPI to the higher (lower) point of the curve

h₁₃ - horizontal distance from VPI to the higher (lower) point of the curve

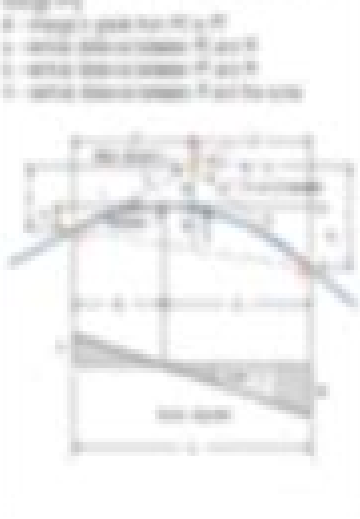
h₁₄ - horizontal distance from VPI to the higher (lower) point of the curve

h₁₅ - horizontal distance from VPI to the higher (lower) point of the curve

h₁₆ - horizontal distance from VPI to the higher (lower) point of the curve

h₁₇ - horizontal distance from VPI to the higher (lower) point of the curve

h₁₈ - horizontal distance from VPI to the higher (lower) point of the curve



GEOMETRIC DESIGN FOR HIGHWAYS AND RAILWAYS

Properties of Vertical Curves

- Length of parabolic curve is the horizontal distance between VPC and VPT
- VPI is midway between VPC and VPT
- Vertical distance between any two points on the curve is equal to area under the grade diagram
- Vertical curves are parabolic in nature

Parabola

Solved Problem Highway Engineering

University of Michigan

The logo of the University of Michigan, featuring a red circular emblem with a white 'U' and 'M' inside, positioned to the right of the text.

Solved Problem Highway Engineering:

Solved Practical Problems in Transportation Engineering Ghazi G. Al-Khateeb, 2022-09-23 The book presents engineering concepts techniques practices principles standard procedures and models that are applied and used to design and evaluate traffic systems road pavement structures alternatives of transportation systems roadway horizontal and vertical alignments to ultimately achieve safety sustainability efficiency and cost effectiveness The book provides plentiful number of problems on five major areas of transportation engineering and includes broad range of ideas and practical problems that are included in all topics of the book Furthermore the book covers problems dealing with theory concepts practice and applications The solution of each problem in the book follows a step by step procedure that includes the theory and the derivation of the formulas in some cases and the computations Moreover almost all problems in the five parts of the book include detailed calculations that are solved using the MS Excel worksheets where mathematical trigonometric statistical and logical formulas are used to obtain a more rapid and efficient solution In some cases the MS Excel solver tool is used for solving complex equations in several problems of the book Additionally numerical methods linear algebraic methods and least squares regression techniques are utilized in some problems to assist in solving the problem and make the solution much easier The book will help academics and professionals to find practical solutions across the spectrum of transportation engineering The book is designed to be informative and filled with an abundance of solutions to problems in the engineering science of transportation It is expected that the book will enrich the knowledge and science in transportation engineering thereby elevating the civil engineering profession in general and the transportation engineering practice in particular as well as advancing the transportation engineering field to the best levels possible **FEATURES** Presents coverage of five major areas in transportation engineering traffic engineering pavement materials analysis and design urban transportation planning highway surveying and geometric design of highways Provides solutions to numerous practical problems in transportation engineering including terminology theory practice computation and design Includes downloadable and user friendly MS Excel spreadsheets as well as numerical methods and optimization tools and techniques Includes several practical case studies throughout Implements a unique kind of approach in presenting the different topics **Western Conference on Increasing Highway Engineering Productivity, Biltmore Hotel, Los Angeles, California, March 5-6-7, 1957** California. Division of Highways, 1957 *The Highway Engineer & Contractor*, 1929 *Highways and Agricultural Engineering, Current Literature*, 1939 **Highway Engineer & Contractor**, 1929 *Proceedings of the Annual Conference in Highway Engineering* University of Michigan, 1921 **Proceedings of the Annual Short Course in Highway Engineering** University of Michigan, 1920 Issues for 1923 include Minutes of the annual business meeting of the County Road Association of Michigan title varies **Engineering News-record**, 1918 Highway Engineering Martin Rogers, Bernard Enright, 2023-07-12 **HIGHWAY ENGINEERING** Understand a foundational area of civil engineering with this

up to date textbook Highway construction is a complex discipline within civil engineering with the potential to transform national economies and transportation infrastructures With car infrastructure coming under both increasing demand and increasing scrutiny for its environmental impact the challenges and complexities of highway engineering have never been a more vital subject The future of sustainable transportation depends on an engineering profession with a solid grasp of the fundamentals of highway design and construction Highway Engineering provides a comprehensive overview of these fundamentals preparing civil engineers and engineering students to analyze design and build highways Situating its subject in the context of a broader political economy social and ecological reality and more it proceeds in a logical sequence from planning to design to construction to maintenance The result is a fully up to date introduction to this subject at the heart of transport engineering Readers of the fourth edition of Highway Engineering will also find Strong integration of material from the UK Design Manual for Roads and Bridges incorporating recent significant changes in the design of highway pavements Detailed examples and case studies to cultivate deepened understanding Increased attention to the growing importance of non car based modes of highway transportation walking cycling and public transport Highway Engineering is essential for engineering students studying civil engineering or transport engineering as well as for professional civil engineers looking for a reference work *Engineering News* ,1914 *Elliott's Magazine* ,1920 **Canadian Engineer** ,1911 *Good Roads* ,1905 **Highway Topics** ,1924 *The Automobile* American Academy of Political and Social Science,1924

Worlds of Written Discourse Vijay Bhatia,2014-09-11 The tension between the real world of written discourse and its representation in applied genre based literature is the main theme of this book The book addresses this theme from the perspectives of four rather different worlds the world of reality the world of private intentions the world of analysis and the world of applications Using examples from a range of situations including advertising business academia economics law book introductions reports media and fundraising Bhatia uses discourse analysis to move genre theory away from educational contexts and into the real world *Work of the Public Roads Administration* United States. Bureau of Public Roads,1923

Report of the Chief of the Bureau of Public Roads United States. Bureau of Public Roads,1953 **Annual Report - Bureau of Public Roads** United States. Bureau of Public Roads, Genre Studies in English for Academic Purposes/ Estudios de Genero en Ingles para propositos academicos Inmaculada Fortanet,Tony Dudley-Evans,1998

Unveiling the Magic of Words: A Review of "**Solved Problem Highway Engineering**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Solved Problem Highway Engineering**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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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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