

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

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

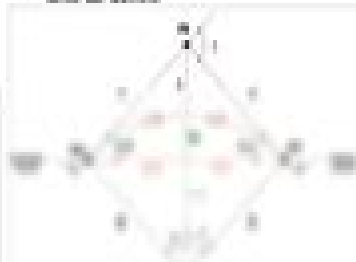
10% - 15% RURAL

15 - 17% URBAN

GEOMETRIC DESIGN FOR HIGHWAYS AND RAILWAYS

Horizontal Curves

SIMPLE CURVE



- A - Point of intersection, intersection of tangents
- B - Point of curvature, beginning of the curve
- C - Point of tangency, end of the curve
- D - Length of the curve
- E - Station on the curve
- F - Station on the curve
- G - Station on the curve
- H - Station on the curve
- I - Station on the curve
- J - Station on the curve

- 1 - Length of the curve
- 2 - Station on the curve
- 3 - Station on the curve
- 4 - Station on the curve
- 5 - Station on the curve
- 6 - Station on the curve
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GEOMETRIC DESIGN FOR HIGHWAYS AND RAILWAYS

Degree of Curve: OBERG Definition

$$\text{Degree of Curve} = \frac{1}{R} \times 100$$

$$R = \frac{5730}{\text{Degree of Curve}}$$

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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

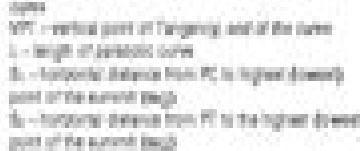
VC - vertical of the first curve

VT - vertical of the first curve

T - common tangent

R = 100 - 1

REVERSE CURVE



PC - Point of compound curvature

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

VC - vertical of the first curve

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T - common tangent

R = 100 - 1

REVERSE CURVE



PC - Point of compound curvature

VC - vertical of the first curve

VT - vertical of the first curve

T - common tangent

R = 100 - 1

GEOMETRIC DESIGN FOR HIGHWAYS AND RAILWAYS

Properties of Vertical Curves

- Length of parabolic curve is the horizontal distance between VPC and VPI
- 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

$$y = ax^2 + bx + c$$

Slope of the Parabola

$$y' = 2ax + b$$



At VPC, the height of the curve is equal to the elevation of VPC

$$y(x) = a + b_1x + b_2x^2$$

$$\text{Elev}_x = \text{Elev}_{VPC} + g_1x + \frac{a}{2}x^2$$

- 2 way curve

- 1 way curve

- 1 way curve

- 1 way curve

- 1 way curve

- 1 way curve

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- 1 way curve

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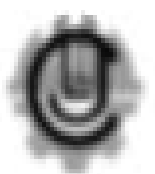
- 1 way curve

- 1 way curve

- 1 way curve

- 1 way curve

HIGHWAY AND RAILROAD ENGINEERING 1
CE 406



Solved Problem Highway Engineering

KJ Lindholm-Leary



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

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