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Geometric design consistency of multiple horizontal curves on two-lane rural highways

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Abstract

Safety on rural highways is of great concern as nearly two third of road fatalities are found to take place on such roads. High speed of vehicles is the characteristic of rural highways. Geometry is one of the factors that control the speed of vehicles and consequently, the crash occurrence. Alignment is one of the components of geometry and an abrupt change in the alignment is a leading cause for crashes in rural highways. Presence of a curve after a long tangent or a sharp curve after a flat curve is an example for inconsistency in the alignment. Such an alignment brings about unnecessary and unhealthy speed changes that may lead to crashes. Thus, a highway design can be evaluated based on consistency in geometry. Operating speed is the measure adopted for consistency evaluation in this study.

The objectives of this study are to develop operating speed models for different classes of vehicles at salient locations of multiple horizontal curves and to develop criteria for evaluating the geometric design consistency. Data of 30 sites were made use for this purpose. Multiple linear regression technique was adopted for modelling. Models were developed for the tangent section and middle of curved sections. Length of preceding tangent is the variable influencing operating speed at tangent. Radius and length of curve significantly influence operating speed at middle of first curve and radius of first and second curve influences operating speed at middle of second curve. Operating speed Deviation from Design speed (ODD) and Speed Reduction (SR) are the consistency measures and Equivalent Property Damage Only (EPDO) crashes is the safety measure used in the study for developing criteria. The criteria developed can be used to evaluate the curve as a single element, and as successive elements (combinations of tangent/curve or curve/curve). Alignment can then be classified as Good, Fair or Poor using these criteria, and it helps a designer to make suitable modifications in the design of a multiple horizontal curve from safety point of view.

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Keywords: Multiple horizontal curve; Operating speed; Speed reduction; Design consistency criteria

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Table of Contents Nchrp Report 502 Geometric Design Consistency On High Speed Rural Two Lane Highways

1. Understanding the eBook Nchrp Report 502 Geometric Design Consistency On High Speed Rural Two Lane Highways
 - The Rise of Digital Reading Nchrp Report 502 Geometric Design Consistency On High Speed Rural Two Lane Highways
 - Advantages of eBooks Over Traditional Books
2. Identifying Nchrp Report 502 Geometric Design Consistency On High Speed Rural Two Lane Highways
 - 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 Nchrp Report 502 Geometric Design Consistency On High Speed Rural Two Lane Highways
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nchrp Report 502 Geometric Design Consistency On High Speed Rural Two

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- Personalized Recommendations
- Nchrp Report 502 Geometric Design Consistency On High Speed Rural Two Lane Highways User Reviews and Ratings
- Nchrp Report 502 Geometric Design Consistency On High Speed Rural Two Lane Highways and Bestseller Lists

5. Accessing Nchrp Report 502 Geometric Design Consistency On High Speed Rural Two Lane Highways Free and Paid eBooks

- Nchrp Report 502 Geometric Design Consistency On High Speed Rural Two Lane Highways Public Domain eBooks
- Nchrp Report 502 Geometric Design Consistency On High Speed Rural Two Lane Highways eBook Subscription Services
- Nchrp Report 502 Geometric Design Consistency On High Speed Rural Two Lane Highways Budget-Friendly Options

6. Navigating Nchrp Report 502 Geometric Design Consistency On High Speed Rural Two Lane Highways eBook Formats

- ePub, PDF, MOBI, and More
- Nchrp Report 502 Geometric Design Consistency On High Speed Rural Two Lane Highways Compatibility with Devices
- Nchrp Report 502 Geometric Design Consistency On High Speed Rural Two Lane Highways Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Nchrp Report 502 Geometric Design Consistency On High Speed Rural Two Lane Highways
- Highlighting and Note-Taking Nchrp Report 502 Geometric Design Consistency On High Speed Rural Two Lane Highways
- Interactive Elements Nchrp Report 502 Geometric Design Consistency On High Speed Rural Two Lane Highways

8. Staying Engaged with Nchrp Report 502 Geometric Design Consistency On High Speed Rural Two Lane Highways

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Nchrp Report 502 Geometric Design Consistency On High Speed Rural Two Lane Highways

9. Balancing eBooks and Physical Books Nchrp Report 502 Geometric Design Consistency On High Speed Rural Two Lane Highways
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nchrp Report 502 Geometric Design Consistency On High Speed Rural Two Lane Highways
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Nchrp Report 502 Geometric Design Consistency On High Speed Rural Two Lane Highways
 - Setting Reading Goals Nchrp Report 502 Geometric Design Consistency On High Speed Rural Two Lane Highways
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Nchrp Report 502 Geometric Design Consistency On High Speed Rural Two Lane Highways
 - Fact-Checking eBook Content of Nchrp Report 502 Geometric Design Consistency On High Speed Rural Two Lane Highways
 - 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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