

16. TRAFFIC ENGINEERING

→ Traffic Volume :

No. of vehicles crossing a section of road in unit time.

Unit: vehicle/hour per lane (or) vehicle/day per lane.

- Volume can be obtained as a uniform value, when expressed in terms of "Passenger Car Unit" (PCU) per hour or day.

- PCU number is assigned based on disturbance caused.

* Method of Volume Counting

(i) Manual method.

Q. In a busy hour, the following vehicles are observed at a cross section of a road. Calculate traffic flow.

Cars - 200

Buses - 80

2 wheelers - 500

HDV - 8

$$\text{Traffic volume} = 200 \times 1 + 80 \times 3 + 500 \times 0.5 + 8 \times 4.$$

$$= 720 \text{ PCU/hour or}$$

$$720 \text{ vehicle/hour.}$$

MSROADS is the software used to calculate traffic flow based on videographs taken.

- Barchart is the method most suitable for representing traffic data.

- 30th Highest Hourly Volume (Design volume)

The hourly volume that will be exceeded only 30 times in a year and all other hourly volumes of the year will be less than this volume.

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Jicheng Xie



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Table of Contents Highway And Transportation Engineering Lecture Notes

1. Understanding the eBook Highway And Transportation Engineering Lecture Notes
 - The Rise of Digital Reading Highway And Transportation Engineering Lecture Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Highway And Transportation Engineering Lecture Notes
 - 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 Highway And Transportation Engineering Lecture Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Highway And Transportation Engineering Lecture Notes
 - Personalized Recommendations
 - Highway And Transportation Engineering Lecture Notes User Reviews and Ratings
 - Highway And Transportation Engineering Lecture Notes and Bestseller Lists

5. Accessing Highway And Transportation Engineering Lecture Notes Free and Paid eBooks
 - Highway And Transportation Engineering Lecture Notes Public Domain eBooks
 - Highway And Transportation Engineering Lecture Notes eBook Subscription Services
 - Highway And Transportation Engineering Lecture Notes Budget-Friendly Options
6. Navigating Highway And Transportation Engineering Lecture Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - Highway And Transportation Engineering Lecture Notes Compatibility with Devices
 - Highway And Transportation Engineering Lecture Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Highway And Transportation Engineering Lecture Notes
 - Highlighting and Note-Taking Highway And Transportation Engineering Lecture Notes
 - Interactive Elements Highway And Transportation Engineering Lecture Notes
8. Staying Engaged with Highway And Transportation Engineering Lecture Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Highway And Transportation Engineering Lecture Notes
9. Balancing eBooks and Physical Books Highway And Transportation Engineering Lecture Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Highway And Transportation Engineering Lecture Notes
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Highway And Transportation Engineering Lecture Notes
 - Setting Reading Goals Highway And Transportation Engineering Lecture Notes
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Highway And Transportation Engineering Lecture Notes
 - Fact-Checking eBook Content of Highway And Transportation Engineering Lecture Notes
 - 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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