

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

HCV - 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.

Highway And Transportation Engineering Lecture Notes

Thomas Griffiths



Highway And Transportation Engineering Lecture Notes:

Decoding **Highway And Transportation Engineering Lecture Notes**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Highway And Transportation Engineering Lecture Notes**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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