

## 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.

- 30<sup>th</sup> Highest Hourly Volume (Design volume)

The hourly volume that will be exceeded only 29 times in a year and all other hourly volumes of the year will be less than this volume.

# Highway Engineering Lecture Notes

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Civil Engineering**

## **Highway Engineering Lecture Notes:**

Highway Engineering : CIV. E. 510 : Course Notes J. J. (Jaap Jelle) Bakker, Anderson, K. O, University of Alberta. Department of Civil Engineering, 1980     *Highway Engineering : CIV. E. 510 : Course Notes* J. J. (Jaap Jelle) Bakker, Anderson, K. O, University of Alberta. Department of Civil Engineering, 1984     **Notes for a Short Course on Fundamentals of Highway Engineering** ,1957     **Highway Engineering Economy** ,1983     Highway engineering economy United States. Federal Highway Administration, 1976     *Syllabus X L* Ralph A. Moyer, John Hugh Jones, 1952

**Supplementary Notes and Typical Problems for the Highway Engineering Course Civil Engineering 170 (formerly C.E. 106)** Ralph A. Moyer, John Hugh Jones, 1958     *Syllabus X L* Ralph A. Moyer, 1955     **Supplementary Notes and Typical Problems for the Highway Engineering Course C.E. 106** Ralph Alton Moyer, John Hugh Jones, 1955

*Undergraduate Catalog* North Carolina State University, 1919     **Good Roads** ,1912     **Engineering & Contracting** ,1922     Principles of Photo Interpretation in Highway Engineering Practice B. Sen Mathur, John F. Gartner, 1964

**Academic Listening** John Flowerdew, 1994 A collection of original papers by researchers working in the field which comprehensively addresses the area of second language academic listening This collection of original papers comprehensively addresses the area of second language academic listening The papers are grouped under five broad headings The first section provides an overview of research relevant to second language lecture comprehension The second analyses aspects of the cognitive processes involved in listening comprehension In the third section the object of the comprehension process is examined and in the fourth ethnographic approaches are explored by extending the concept of listening comprehension to place it in the wider context of the culture of learning In the final section the theory of second language listening comprehension is related to practical pedagogic concerns Each section is preceded by an accessible introduction and the book as a whole provides detailed coverage of important aspects of academic listening phenomena

*General Catalog* University of Missouri, 1923     **The Surveyor and Municipal and County Engineer** ,1922

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