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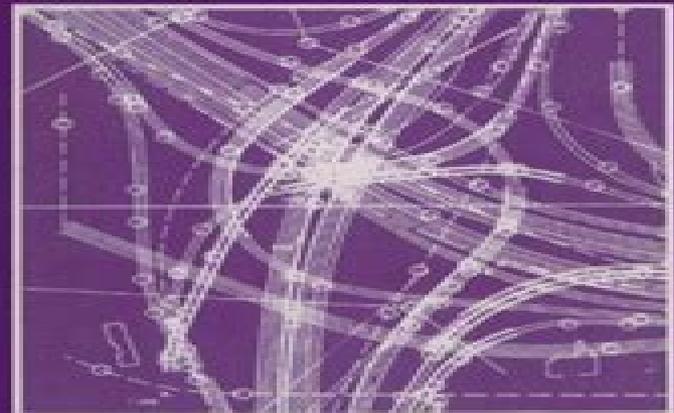
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# HIGHWAY ENGINEERING

FIFTH EDITION



PAUL H. WRIGHT  
RADNOR J. PAQUETTE

chapter five

## TRAFFIC CHARACTERISTICS

A knowledge of traffic characteristics is useful to the highway engineer in developing highway and transportation plans, performing economic analyses, establishing geometric design criteria, selecting and implementing traffic control measures, and evaluating the performance of transportation facilities. Dozens of measures have been employed to describe the quality and quantity of traffic flow. In this chapter, information is presented on those flow characteristics that fundamentally bear on the planning, design, and operation of highway and transport facilities: traffic speed, travel time, volume, and density. In a section on highway capacity, we will consider ways of estimating the ability of various highway facilities to accommodate traffic flow. Finally, we will describe the nature and severity of the highway accident problem and examine the causes of traffic crashes.

### TRAFFIC FLOW CHARACTERISTICS

#### 5-1 Speed and travel time

Speed of travel is a simple and widely used measure of the quality of traffic flow. Basically, speed is the total distance traversed divided by the time of travel. Speed is commonly expressed in miles per hour or feet per second. Its reciprocal, travel time, is usually expressed in units of minutes per mile.

There are three basic classes of measures of speed of travel:

1. Spot speed.
2. Overall speed.
3. Running speed.

Spot speed is the "instantaneous" speed of a vehicle as it passes a specified point along a street or highway. There are, of course, practical difficulties in measuring instantaneous speeds since, by definition, speed is the distance traveled divided by the travel time. Spot speeds may be determined by meas-

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**Wolfgang Guggemos**



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