

Highway Sight Distance

- 1) a. Define sight distance and state its types.
 - b. Derive an expression for calculating the braking distance in terms of vehicle speed, coefficient of friction, and the grade on which a vehicle operates.
 - c. What is the only case that you may use Passing Sight distance in the design?
 - d. What should be the length of braking skid marks for a car traveling at a speed of 90 km/h if it has to stop to avoid an accident?
- 2) Calculate the Stopping Sight Distance (SSD) required on a highway for a design speed of 80 km/h, assuming that the perception and reaction time is 2.5 seconds and the coefficient of longitudinal friction (f_1) is 0.30. If the pavement becomes so wet that, f_1 , is reduced to 0.25, what will be the required SSD? What is the effect of 6% upgrade on the SSD calculated before?
- 3) A vehicle initially traveling at 150 km/h skids to a stop on a 3% downgrade, taking 200 m to do so. What is the coefficient of friction on this surface? What should the grade be if the coefficient of friction is 0.40?
- 4) A vehicle operating on an urban road with a speed limit of 80 km/h had a collision with a vehicle, which moved from an intersection road with a stop sign. The skid marks at the site of the accident were 65 meters in length and the pavement was dry. Which vehicle was at fault and why?
- 5) Determine the Passing Sight Distance for a two-lane two-way highway given the following information:
 - Average speed of the slow vehicle = 60 km/h
 - Average speed of the passing vehicle = 75 km/h
 - Average acceleration rate = 2.5 km/h/sec
 - Preliminary delay time = 3.0 sec.
 - Left lane occupancy time = 7 sec.

Highway Engineering Exam

Jin-Ying Zhang



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