

# Highway Engineering

## DESIGN OF HORIZONTAL CURVE

### Minimum Radius of Curvature

$$r = \frac{v^2}{g(e + f)}$$

$r$  = min. radius of curvature

$e$  = superelevation in m/m

$f$  = coefficient of side friction or skid resistance

$v$  = design speed in m/s

$g = 9.81 \text{ m/sec}^2$



### Centrifugal Ratio (CR) or Impact Factor (IF)

$$CR \text{ or } IF = \frac{v^2}{gr}$$

$$CR \text{ or } IF = e + f$$

$$CR \text{ or } IF = \frac{F}{W}$$

### Centrifugal Force (CF)

$$CF = W \times CR = \frac{Wv^2}{gr}$$

### Problem

A car having a weight of  $40 \text{ KN}$  is moving at a certain speed around the curve. Assuming no lateral pressure between the tire and pavement and considering a centrifugal ratio of  $0.30$ .

a. Compute the force that will tend to pull the car away from the center of the curve.

b. If the degree of curve is  $40^\circ$  determine the maximum

$$CR = \frac{v^2}{gr}; \quad 0.30 = \frac{v^2}{(9.81)(286.479)}$$

$$v = 29.04 \text{ m/s}^2$$

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**Scott C. Dulebohn**



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