

# 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 m/sec<sup>2</sup>



### 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  $W$  **40 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**  $CR$

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** 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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**Ralph A. Moyer, John Hugh Jones**



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*Engineering Record, Building Record and Sanitary Engineer*, 1894      **Engineering News**, 1902      **The Engineer**, 1879      **Engineering News and American Contract Journal**, 1902      **Notes for a Short Course on Fundamentals of Highway Engineering**, 1957      **Highway Engineering : CIV. E. 510 : Course Notes** J. J. (Jaap Jelle) Bakker, Anderson, K. O, University of Alberta. Department of Civil Engineering, 1980      **Professional Short Period Advanced Courses in Highway Engineering and Highway Transport** University of Michigan. Department of Civil Engineering. Division of Highway Engineering and Highway Transport, 1915      Supplementary Notes and Typical Problems for the Highway Engineering Course C.E. 106 Ralph Alton Moyer, John Hugh Jones, 1950      **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      Fundamentals of Traffic Engineering Norman Kennedy, James H. Kell, Wolfgang S. Homburger, 1973      *Shell Road Engineering Course, [1958]*, 1958      **Syllabus W C** Ralph A. Moyer, John Hugh Jones, 1950      **Course note**, 1957      **Course Notes**, 1949      Traffic and Highway Engineering Nicholas J. Garber, Lester A. Hoel, 1999 This classic reference is the ideal core text for the traffic and highway engineering course taught in civil engineering programs Garber and Hoel's best selling transportation reference is newly revised to reflect recent TEA 21 legislation and transportation statistics Some of the pedagogical elements that have made this book so successful both as a text and a professional reference include motivating examples in each chapter a list of references and a comprehensive problem set at the end of each chapter and a large number of tables and diagrams Readers can relate directly to the problems of motor vehicle travel and this book allows them to gain a better understanding of highway transportation in all its dimensions to experience some of the challenges of the profession and to learn about professional opportunities      *Some Fundamentals of Highway Improvement* Benjamin Harrison Petty, 1934      **Course Notes**, 1948      **Highway Engineering** Coleman A. O'Flaherty, 1974

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