

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/sec²



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 $W = 40 \text{ KN}$ 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 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 4° 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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Engineering News ,1902 **Engineering Record, Building Record and Sanitary Engineer** ,1894 **Engineering News and American Contract Journal** ,1902 **The Engineer** ,1879 **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,1955 *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,John Hugh Jones,1952 *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 *Some Fundamentals of Highway Improvement* Benjamin Harrison Petty,1934 **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

Highway Engineering Charles Edward Morrison,1908 Course Notes ,1948

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