

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 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° 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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Charles Edward Morrison



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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

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