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Solution to Example 8.4 The minimum distance needed to stop X_c is, from Equation 8.3a, computed as $t_s = \text{time to stop} = v_0/d_{\text{brake}} = (30 \times 1.47)/10 = 4.41 \text{ sec}$ $X_c = v_{\text{otr}} + v_{\text{ots}} \left[\frac{1}{2} d_{\text{brake}} t_s^2 \right] = (30 \times 1.47 \times 1.5) + (30 \times 1.47 \times 4.41) \left[\frac{1}{2} (10) (4.41)^2 \right] = 163.39 \text{ ft}$ If the driver was any closer to the intersection than the X_c distance just

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Manual Solution to Example 8.4 The minimum distance needed to stop X_c is, from Equation 8.3a, computed as $t_s = \text{time to stop} = v_0 / d$

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$\text{brake} = (30 \times 1.47) / 10 = 4.41 \text{ sec}$
 $X_c = v_o t_r + v_o t_s + (1/2) d \text{ brake } t_s^2 = (30 \times 1.47 \times 1.5) + (30 \times 1.47 \times 4.41) + (1/2)(10)(4.41)^2 = 163.39 \text{ ft}$
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Trnnsprn Res.. V'ol. 10, pp. M-375. Pergamon Press 1976. Primed in Great Britain TRANSPORTATION SYSTEMS ANALYSIS: A PERSONAL VIEW MARVIN L. MANHEIM Department of Civil Engineering and Center for Transportation Studies, Massachusetts Institute of Technology, Cambridge, MA 02139, U.S.A. t. THE FIELD TODAY In the last 10 years, the field of transportation systems analysis has emerged as a new and ...

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Fundamentals of Transportation Engineering: A Multimodal Systems Approach. Prof Robert Whitford holds B.S., M.S. and Ph.D. degrees in electrical engineering from Purdue University. Following graduation in 1955, he worked in the aerospace industry, designing and analyzing Missile and Spacecraft systems at TRW Systems (Redondo Beach, California) for 17 years.

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