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### *CIVIL FORMULAS - civil engineering*

Formula Used:  $L_m = (A \times S^2) / (200 \times (H + S \times \tan \theta))$  ?  $S < L_m$   $L_m = 2S \times \{ (200 \times (H + S \times \tan \theta)) / A \}$  ?  $S > L_m$  If  $S > L_m$ , then the first formula is used, if  $L > S$ , then the second formula is used. Where, A - Absolute difference between  $g_2$  and  $g_1$  S - Sight Distance L m - Minimum Curve Length H - Height of headlight

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More than three-quarters of the material in Tyler Hicks Civil Engineering Formulas Pocket Guide is in the form of formulas, tables, and graphs, presented in SI and USCS formats. Each chapter, offering collections of problems and calculations, gives you quick reference to a well-defined topic: Conversion Factors for Civil Engineering Practice

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$q$  = heat transferred per unit time (W, Btu/hr)  $A$  = heat transfer area of the surface ( $m^2$ ,  $ft^2$ )  $h$   $c$  = convective heat transfer coefficient of the process ( $W/(m^2 K)$  or  $W/(m^2 o C)$ , Btu/ ( $ft^2 h...$

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## *Civil Engineering Formulas Civil Engineering Formulas*

1. Void ratio ( $e$ ) is the ratio of the volume of voids ( $V_v$ ) to the volume of soil solids ( $V_s$ ), and is expressed as a decimal. 2. Porosity ( $n$ ) is the ratio of the volume of voids to the total volume of soil ( $V$ ), and is expressed as a percentage. Void ratio and porosity are inter-related to each other as follows: and.

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