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the equation is used in the swmm input file below. swmm converts the depth to unit depth for you, so you don't need to re-calculate the depth. the example swmm input file is for a natural channel. to calculate the headwater depth of a manmade channel, see: use of excel spreadsheet formulas for uniform open channel flow/manning equation calculations. for a given design discharge (q), there will be a corresponding headwater depth (hw) upstream of the culvert entrance. in fact, it is the headwater depth that pushes or forces the design discharge through the culvert opening. for a given culvert opening, a higher discharge will typically result in a higher headwater depth since more energy is needed to force the flow through the culvert. in open-channel hydraulics, energy is synonymous with water depth as shown in equation 1. for a given design discharge (q), there will be a corresponding headwater depth (hw) upstream of the culvert entrance. in fact, it is the headwater depth that pushes or forces the design discharge through the culvert opening. for a given culvert opening, a higher discharge will typically result in a higher headwater depth since more energy is needed to force the flow through the culvert. in open-channel hydraulics, energy is synonymous with water depth as shown in equation 1. the swmm input file below will allow you to calculate the normal depth and velocity in a 36-inch diameter culvert carrying 20 cfs with the following characteristics: pipe slope = 0.16% and pipe roughness n=0.015. the solution using the manningequation is as follows (and also presented in example 6-3 of the textbook open-channel hydraulics. ven te chow. mcgraw-hill, new york, 1959): depth = 2.16 ft; velocity = 3.68 ft/s.

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the manning equation is also used in solving open channel flow problems in natural channels. a typical example would be the water discharge through the canals in a drainage area. here, the manning equation is used to find the hydraulic radius. the calculation would use a manning roughness coefficient value obtained from a hydraulic survey of the channel. a brief example of a manning equation solution is given below. the foregoing is a brief introduction to the manning equation and its use in open channel hydraulics. it is intended to give readers an overview of the equation and its use. more extensive coverage of open channel hydraulics is provided in the open channel hydraulics textbook chapter by chow. the manning equation can be used to determine the normal depth for a given volumetric flow rate and pipe roughness coefficient. it can also be used to determine water velocity in a uniform open channel flow. the manning equation is a necessary condition for the use of the manning equation and a good starting point for an analysis of the equations used in modeling hydraulics. the manning equation requires that the flow be uniform in the direction of the flow. if the flow is not uniform, the manning equation is not directly applicable. for example, a flow pattern that is uniform in the direction of flow will only be uniform if the flow is uniform in the transverse direction. the manning equation for open channel flow can be used to calculate the flow depth of a uniform open channel flow. in the manning equation, the manning roughness coefficient, n, is used to describe the roughness of the channel bottom. the manning equation shows that for open channel flow, the average depth is given by the formula $d = 1.49/n$ times the hydraulic radius, r. 5ec8ef588b

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