

Example 1

Open channel of width = 3m as shown, bed slope = 1:5000, d=1.5m find the flow rate using Manning equation, $n=0.025$.

$$V = \frac{1}{n} R_h^{\frac{2}{3}} \sqrt{S_e}$$

$$A = 0.5 \times (3 + 9) \times 1.5 = 9 \text{ m}^2$$

$$P = 2\sqrt{(3^2 + 1.5^2)} + 3 = 9.708$$

$$R_h = \frac{A}{P} = \frac{9}{9.708} = 0.927$$

$$V = \frac{1}{0.025} \times 0.927^{\frac{2}{3}} \sqrt{1/5000} = 0.538 \text{ m/s}$$

$$Q = VA = 0.538 \times 9 = 4.84 \text{ m}^3 / \text{s}$$



The Manning Equation For Open Channel Flow Calculations

Harlan Bengtson



The Manning Equation For Open Channel Flow Calculations:

The Manning Equation for Open Channel Flow Calculations Harlan Bengtson, 2017-02-11 The Manning equation is a widely used empirical equation for uniform open channel flow of water. It provides a relationship among several open channel flow parameters of interest: i) flow rate and/or average velocity, ii) bottom slope of the channel, iii) cross-sectional area of flow, iv) wetted perimeter, v) and Manning roughness coefficient for the channel surface. The term open channel flow is used to refer to flow with a free liquid surface at atmospheric pressure in which the driving force for flow is gravity. Pipe flow, on the other hand, is used to refer to fluid flow in a closed conduit under pressure in which the primary driving force for flow is typically pressure. Open channel flow occurs in natural channels such as rivers and streams and in manmade channels such as those used for storm water, waste water, and irrigation water flow. This book is about open channel flow and in particular about uniform open channel flow in which the channel slope, water velocity, and water depth remain constant. There is emphasis on calculations with the Manning equation and the use of Excel spreadsheets for those calculations. There is also coverage of several different ways in which open channel flow is classified, including clarification of the difference between uniform and non-uniform open channel flow.

Partially Full Pipe Flow Calculation Spreadsheets Harlan Bengtson, 2017-01-30 The Manning equation is used for a wide variety of uniform open channel flow calculations, including gravity flow in pipes. The topic of this book is gravity flow in pipes for partially full flow up to and including full pipe flow as long as the pipe isn't pressurized. Equations for calculating area, wetted perimeter, and hydraulic radius for partially full pipe flow are included in this book along with a brief review of the Manning equation and discussion of its use to calculate: a) the flow rate in a given pipe, b) the required diameter for a specified flow rate at a target percent full in a given pipe, c) the normal depth of flow for a specified flow rate in a given pipe, d) the required pipe slope for a specified flow rate and depth of flow through a given pipe, and e) calculation of an experimentally determined value for the full pipe Manning roughness coefficient. This includes presentation and discussion of the equations for the calculations, example calculations, and spreadsheets to facilitate the calculations. Examples include calculation with both U.S. units and S.I. units.

Calculation of Flow in Open Channels Ivan Edgar Houk, 1918 **Modern Irrigation Techniques** Sumitra Varman, 2025-01-03 Modern Irrigation Techniques opens the door to new and improved ways of irrigating lands, aiming to increase productivity and enhance farmers' lives. We address the challenges of conventional irrigation methods, present-day vulnerabilities, and current trends using case studies to bridge theory with real-world applications. Our book delves into factors affecting crop irrigation, such as soil, climate, and resource availability, providing comprehensive knowledge on modern irrigation technologies. We ensure that equations and formulas are easy to understand and apply practically. Covering a broad range of topics, we guide readers through the intricacies of irrigation systems and their effective management. This book is not only about irrigation technologies but also about making your setup successful. With a focus on

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