

Water Engineering With The Spreadsheet A Workbook For Water Resources Calculations Using Excel

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Water Engineering with the Spreadsheet: A Workbook for Water Resources Calculations Using Excel Below is a sample problem that quickly demonstrates the benefit of these spreadsheets for both students and new engineers. Print and e-book versions are both available in the ASCE Library.

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Element designs with notes and discussions have added to get comprehensive knowledge. Also, construction materials, shoring system design, water retaining structures, crack width calculations, etc. have discussed in addition to other aspects.

Spreadsheets - Structural Guide
Use our excel formulas in the downloadable spreadsheet templates to make storm sewer design calculations in S.I or U.S. units. The overall procedure for design of the storm water drainage system is discussed, along with the design criteria used for the storm sewer section between adjacent manholes. The rational method is used to calculate the design storm water runoff flow rate.

Use of Excel Formulas (S.I or U.S. units) for Storm Sewer ...
This Excel spreadsheet can be used to calculate equilibrium and design values for effluent metal concentration, chemical usage and solids production based on user input values for wastewater flow rate, metal concentrations, design safety factor, and chemical used and its purity,.

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Water Hammer in Excel This Excel spreadsheet will calculate the maximum pressure surge when the valve at the end of a pipeline is closed. When flow is suddenly stopped, flow inertia causes a pressure surge at the valve, with a shockwave propagating through the pipeline. This is also known as Water Hammer and can cause considerable damage.

Building Services Engineering Spreadsheets is a versatile, user friendly tool for design calculations. Spreadsheet application software is readily understandable since each formula is readable in the location where it is used. Each step in the development of these engineering solutions is fully explained. The book provides study material in building services engineering and will be valuable both to the student and to the practising engineer. It deals with spreadsheet use, thermal transmittance, building heat loss and heat gain, combustion analysis, fan selection, air duct design, water pipe sizing, lumen lighting design, electrical cable sizing, at a suitable level for practical design work. Commercially available software, while very powerful and comprehensive, does not allow the user any facility to look into the coded instructions. The user has to rely upon the supplier for explanation, updates and corrections. The advantage that the spreadsheet applications provided with the book have over purchased dedicated software, is that the user can inspect everything that the program undertakes. Parts of the worksheets can be copied to other cells in order to expand the size of each worksheet. Experienced spreadsheet operators can edit the cells to change the way in which data and calculations are used, and with guidance from the explanatory, build their own applications.

This book is a sister volume to Volume 20 of the Handbook of Environmental Engineering Series, "Integrated Natural Resources Management", and expands on the themes of that volume by addressing the conservation and protection of natural resources in an environmental engineering context through state-of-the-art research methodologies and technologies. With a focus on water and wastewater treatment, the book takes a multidisciplinary approach to provide readers with an understanding of developments in natural resources technology over the last few decades, and how technology and industry methods will progress to ensure cleaner and sustainable methods of natural resources management. The key topics covered include biological activated carbon treatment for recycling biotreated wastewater, composting for food processing wastes, treatment of wastewater from chemical industries, agricultural waste as a low-cost adsorbent, and the invention, design and construction of potable water dissolved air flotation and filtration plants. The book will be useful to environmental resources engineers, researchers, water treatment plant managers, chemical engineers, industrial plant managers, and environmental conservation agencies.

In this basic introduction, the author aims to help engineers and scientists to understand and use Excel in their fields. The book is interactive and designed to be used in conjunction with a computer, to provide a hands-on learning experience.

This 1998 book introduces the basics of engineering design and analysis for beginning chemical engineering undergraduate students.

"This book teaches the principles of design, and how they apply to engineering design projects and future job activities. Updated in response to reviewer feedback, this edition features even more design projects and increased coverage of team skills."--Publisher's website.