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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.

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Use of Excel Formulas (S.I or U.S. units) for Storm Sewer ...

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Low Cost Easy to Use Spreadsheets for Engineering ...

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Civil engineering program: Design of Rectangular water ...

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.

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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

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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.

This book presents the basic principles for evaluating water quality and treatment plant performance in a clear, innovative and didactic way, using a combined approach that involves the interpretation of monitoring data associated with (i) the basic processes that take place in water bodies and in water and wastewater treatment plants and (ii) data management and statistical calculations to allow a deep interpretation of the data. This book is problem-oriented and works from practice to theory, covering most of the information you will need, such as (a) obtaining flow data and working with the concept of loading, (b) organizing sampling programmes and measurements, (c) connecting laboratory analysis to data management, (e) using numerical and graphical methods for describing monitoring data (descriptive statistics), (f) understanding and reporting removal efficiencies, (g) recognizing symmetry and asymmetry in monitoring data (normal and log-normal distributions), (h) evaluating compliance with targets and regulatory standards for effluents and water bodies, (i) making comparisons with the

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monitoring data (tests of hypothesis), (j) understanding the relationship between monitoring variables (correlation and regression analysis), (k) making water and mass balances, (l) understanding the different loading rates applied to treatment units, (m) learning the principles of reaction kinetics and reactor hydraulics and (n) performing calibration and verification of models. The major concepts are illustrated by 92 fully worked-out examples, which are supported by 75 freely-downloadable Excel spreadsheets. Each chapter concludes with a checklist for your report. If you are a student, researcher or practitioner planning to use or already using treatment plant and water quality monitoring data, then this book is for you! 75 Excel spreadsheets are available to download.

Engineering services present a significant cost in terms of the installation cost, the energy consumed and the maintenance, repair and upgrading of the systems. It is therefore important that construction professionals have a good understanding of the basics and applications of building services engineering. This thoroughly up-dated fourth edition of David Chadderton's text provides study materials in the fields of construction, architectural, surveying and energy engineering. In particular, the chapters on The Built Environment and Energy Economics benefit from the author's recent industrial work. Additional material, including further questions, interactive calculations, simple PowerPoint material and links to related websites, are available on the author's website. David is a Chartered Professional Engineer with the Institution of Engineers Australia, a Chartered Building Services Engineer with the Engineering Council in the UK, through the Chartered Institution of Building Services Engineers, and a Member of the Australian Institute of Refrigeration, Air Conditioning and Heating. Since November 2001,

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David he has been Director of his own company, Eteq Pty Ltd. specializing in the designing and implementation of energy saving projects in commercial, health care, university and manufacturing buildings.

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

Engineers and scientists can use spreadsheets to help them quickly solve technical problems. Ideal for analyzing and manipulating data, Quattro Pro spreadsheet software from Borland International, also turns out to be an excellent tool for technologists requiring database management, mathematical functions, graphing data, statistics, regressive analysis, matrix arithmetic, and more. In this book, professional engineer Robert G. Parks describes the specific functions of Quattro Pro 3.0 that benefit scientists and engineers in a range of disciplines. The book contains numerous examples with clearly defined steps to help technologists integrate Borland's powerful software into their daily work lives.