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Excel Spreadsheets Chemical Engineering

Excel Solutions to the Chemical Engineering Problem Set

Chemical Engineering Summer School held in Snowbird, Utah on August 13, 1997 Excel version 70 (part of Microsoft's Office 95) was used to solve all the problems Considerable use was made of Visual Basic for Applications which is part of Excel User defined

Back to Basics Use Spreadsheets for ChE Problem-Solving

Excel spreadsheet skills and will provide you with tools to solve common chemical engineering problems David E Clough Univ of Colorado Use Spreadsheets for ChE Problem-Solving This article is based on the AIChE online course, "Spreadsheet Problem- Solving for Chemical Engineers" To register for this course, or to watch a

Advanced Spreadsheet Features for Chemical Engineering ...

Keywords: Spreadsheets, Excel, Thermodynamics I Introduction Spreadsheets are popular computational tools among students and have powerful capabilities for engineering calculations^{1,2,3} Spreadsheets offer a very short learning curve compared to code-based computer techniques Usually students have had exposure

Application of Excel spreadsheet in engineering education

C Chemical Engineering Edgar [34] recommends a significant perspective to spreadsheet appraisal in chemical engineering Rives and Lacks [35] studied the subject of teaching process control with a numerical method using spreadsheets Chemical process simulation using the Excel program is described by Henao and Velasquez [36]

Spreadsheets in Chemical Engineering Education—A Tool ...

Spreadsheets in Chemical Engineering Education—A Tool in Process Design and Process Integration* EUGE'NIO C FERREIRA Centro de Engenharia

Biolo'gica, Universidade do Minho, Campus de Gualtar, 4710-057 Braga, Portugal

Spreadsheet Applications in Engineering Education: A ...

ing It could go from process control in chemical engineering to crack detection in material and metallurgical engineering, from well simulation in petroleum engineering to equipment failure rate in agricultural engineering Fields such as electrical, industrial, mechanical, and civil engineering have extensively utilised spreadsheets in great

Application of Excel Macro Programming to Core Chemical ...

- Teaching of Excel VBA programming will include self-learning, tutorial and practice
- It is based on using practical examples in core courses, where students is required to write Excel VBA programs to solve practical chemical engineering problems
- The use of Excel VBA was demonstrated to the students and compare with other methods of

Visualizing the McCabe-Thiele Diagram

available Excel software and uses standard techniques, this method is a useful advance over existing software tools that enable visualization of the McCabe-Thiele diagram Excel spreadsheets are increasingly used in chemical engineering education and industrial practice (5) This article demonstrates how Excel may be used for chemical

Chemical Equilibrium by Gibbs Energy Minimization on ...

Chemical Equilibrium by Gibbs Energy Minimization on Spreadsheets* Y LWIN Department of Chemical Engineering, Rangoon Institute of Technology, Insein P O, Rangoon, Burma E-mail: ylwin@yahoo.com This paper describes the use of Solver function, contained in the Microsoft Excel spreadsheet package, in computing the chemical equilibrium of

Spreadsheets as an Engineering Tool

The Spreadsheets as an Engineering Tool short course demonstrates the use of Microsoft Excel as a powerful processing tool in solving engineering and system design problems Spreadsheets are excellent tools for answering questions, and the course focuses on various built-in functions,

Spreadsheets as an Engineering Tool (P000036)

Spreadsheets as an Engineering Tool (P000036) BRIEF DESCRIPTION Microsoft estimate that the average Office user only knows or use about 10% of the features available in MS Excel MS Excel is available on most computers in an office It has developed into a powerful processing tool for doing data analysis, modelling and general calculations

Material Balance Calculations Using the Excel Spreadsheet

Material Balance Calculations Using the Excel Spreadsheet Introduction Material balance is a fundamental petroleum reservoir engineering tool that can be used to provide an understanding of a reservoir and the influence of any connecting aquifer The basic requirements for the application of material balance to a reservoir include:

V ALUE E NGINEERING W ORKBOOK

for their use These forms are also provided in Microsoft Excel 95 format By using the forms, a VE study can be completed with little preliminary training, particularly if the team leader is experienced in VE techniques Appendices A and B contain information that will be helpful in the study process

Introduction to Chemical Engineering Processes/Print Version

Introduction to Chemical Engineering Processes/Print Version o 111 Introduction to Spreadsheets o 112 Anatomy of a spreadsheet o 113 Inputting

and Manipulating Data in Excel 1131 Using formulas 1132 Performing Operations on Groups of Cells

SOLVING L-L EXTRACTION PROBLEMS WITH EXCEL ...

installed including Excel, it was worthwhile to teach them to use spreadsheets As most chemical engineering students are familiar with the graphical method, it is preferable to perform spreadsheet calculations based on the same principle With an Excel spreadsheet there is no need to draw any graphical diagrams

Using A Concurrently Collaborative Spreadsheet To ...

Using a Concurrently Collaborative Spreadsheet to Improve Teamwork and Chemical Engineering Problem Solving Abstract A project investigating the viability of a concurrently collaborative online spreadsheet to improve the effectiveness of student teams when solving chemical engineering problems is described

SAMPLER-Engineering Systems Modeling with Excel-VBA

course entitled "Engineering Systems Modeling with Excel/VBA" The course provides in-depth details on the principles, practices, and implementation of Excel and its integrated programming environment, Visual Basic for

Teaching Science and Mathematics Subjects Using the ...

Teaching Science and Mathematics Subjects Using the Excel Spreadsheet Package Dogan Ibrahim 1 Department of Biomedical Engineering, Near East University, Lefkosa, TRNC dogan@neuedutr Abstract The teaching of scientific subjects usually require laboratories where students can put the theory they have learned into practice

Engineering Economics 4-1 - Valparaiso University

Engineering Economics 4-1 Cash Flow Cash flow is the sum of money recorded as receipts or disbursements in a project's financial records A cash flow diagram presents the flow of cash as arrows on a time line scaled to the magnitude of the cash flow, where expenses are down arrows and receipts are up arrows Year-end convention ~ expenses

Comp Methods Workbook 266 3rd Ed - University of ...

engineering work activities: design, computer applications, and management (Burton 1998) According to a CACHE survey of chemical engineering graduates (Edgar 2003): 100% use a computer every day 98% use Excel or comparable spreadsheet programs (88% for ...