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Macros and Functions

Excel Programming Tutorial 1 Macros and Functions by Dr Tom Co Department of Chemical Engineering Michigan Technological University (8/31/07, 11/11/07) Excel Version: Excel 2007 Basic Concepts: • A macro is a user-programmed routine that can be accessed by shortcut-keys

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 Engineering (CH ENG)

Chemical Engineering (CH_ENG) 1 Chemical Engineering (CH_ENG) CH_ENG 1000: Introduction to Chemical Engineering Orientation course for freshmen-level students Introduction to careers and opportunities in chemical engineering, basic engineering principles, simple calculations Credit Hours: 2 Prerequisites or Corequisites: MATH 1500, CHEM 1320

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Analysis of Processes with Excel (APEX)

APEX Documentation 2 Analysis of Processes with Excel (APEX) Release Notes APEX is an Excel add-in designed to accompany the fourth edition of

Elementary Principles of Chemical Processes, a textbook for the introductory chemical engineering course on material and energy balances It enables users to easily perform routine time-consuming tasks that often

ChE 473A Chemical Engineering Unit Operations Laboratory ...

Sep 07, 2010 · operations in chemical engineering practice Chapters2{4give a brief overview of the fundamentals of pre- and post-experimental preparation and analysis Chapter2covers the selection of independent variable values used to map the dependent variable response, including statistical design of experiments for systems with multiple variables

1. [PDF]

[Section 1 Introduction - US EPA](#)

<https://www3epagov/ttn/ecas/docs/cs1ch2pdf>

As mentioned in Chapter 11, the costs and estimating methodology in this **Manual** are directed toward the “study” estimate with a nominal accuracy of $\pm 30\%$ percent According to Perry’s **Chemical Engineer’s Handbook**, a study estimate is “... used to estimate the economic

2. [PDF]

[Introduction to Chemical Engineering Processes/Print Version](#)

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3. [PDF]

[CHE 31 INTRODUCTION TO CHEMICAL ENGINEERING ...](#)

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Prof Manolito E Bambase Jr Department of **Chemical Engineering** University of the Philippines Los Baños SLIDE 5 Example 11-1 Theoretical and Stoichiometric Air In a given process, 100 kmol of carbon is burned in a furnace It has been found that 20% of the carbon undergoes incomplete

combustion resulting to CO production

4. [PDF]

[Chemical Engineering Thermodynamics II](#)

<https://www.cpp.edu/~lllee/TK303pdf>

34-1 Gibbs Free Energy as a Criterion for **Chemical** Equilibrium 3-12 34-2 The **Chemical** Potential 3-13 34-3 Vapor Liquid Phase Equilibrium 3-16
Example 34-1: Horsepower of a compressor 3-18 Example 34-2: Two-level refrigeration system 3-19 34-4 The Clapeyron Equation 3-23 Example 34-3:
Triple point estimation 3-27

5. [PDF]

[Engineering Economics Lecture - MIT OpenCourseWare](#)

<https://ocw.mit.edu/courses/chemical-engineering/10-490-integrated-chemical>

Engineering Economics Overview and Application in Process **Engineering** Industry 10490 ICE Kangyi MAO 02 OCT 2006 WHAT IS ECONOMICS?
“Economics is the study of how people and society choose to employ scarce resources that could have alternative uses in order to produce various
commodities and to

6. [PDF]

[CE 332 Environmental Engineering- Lab I \(Lab Manual\)](#)

www.austedu/civil/lab_manual/ce_332pdf

The **manual** contains relevant fundamental chemistry and biology concepts/theories and their applications in environmental **engineering** The key
tests include Physical, **chemical** and bacteriological tests of water and waste water Sampling and laboratory analysis of air and solid waste are also
discussed in this **manual**

7. [PDF]

[Physical and Chemical Data](#)

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Thomas E Daubert, PhD, Professor, Department of **Chemical Engineering**, The Pennsylvania State University (Prediction and Correlation of Physical Properties) Evan Buck, MSChE, Manager, Thermophysical Property Skill Center, Central Technology, Union Carbide Corporation (Prediction and Correlation of Physical Properties)

8. [PDF]

[Chapter 4 Mass and Energy Balances](#)

<https://www.cpp.edu/~tknguyen/che302/Notes/chap4-1.pdf>

4-5 $r_A = 25 - (1.0005 \times 10^5) \rho_A^2$ Verify the solution At $t = 0$, from (E-5); $r_A = 0$, as $t \rightarrow \infty$, $r_A = 25 \text{ kg/m}^3$ The following example requires numerical integration Example 41-4 3A gas storage tank with a floating roof receives a steady input of 540 m³/h of a natural gas The rate of withdrawal of gas from the tank, F_w (m³/min), varies more or less randomly

9. [PDF]

[ChemE](#)

<https://www.aiche.org/sites/default/files/docs/overview-page/9865-14aichestudent>

important **chemical**, biological, physical, safety, and mathematical data and concepts that are fundamental to the practice of the **chemical engineering** profession With these principles you should be able to solve many **chemical engineering** problems Good Luck! AIChE would like to thank Professors David Murhammer,

10. [PDF]

[An Analysis of Capital Cost Estimation Techniques for](#)

<https://repository.lib.fittedu/bitstream/handle>

I would also like to thank the faculty in the **Chemical Engineering** Department, as well as Dr Fabregas from **Engineering** Systems, for the continued support, guidance, and patience during this endeavor 1 Chapter 1 Introduction According to Perry's **Chemical Engineering** ...

11. [PDF]

[CHAPTER 21 Mechanical Design of Mixing Equipment](#)

wwwexpertscom/content/articles/david_dickey_2

(**Chemical Engineering**, August 2, 1976, pp 89-94) cost advantages of side-entering mixers Bottom-entering mixers are used when process requirements or tank geometry makes top or side mounting impractical 21-22 Other Types of Mixers Although portable, top-entering, or turbine mixers account for the largest number

12. [PDF]

[COST ESTIMATION](#)

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