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Formula Sheet

# **Chemical Engineering Formula Sheet**

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## **Engineering Formula**

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Have you ever wanted to have the formulas with you for quick reference? you can download the Pocket Guide to Chemical Engineering on this link: [HERE](#) The book is written by Carl R. Branan who has more than 40 years of experience in process design and troubleshooting in oil, chemicals, fibers, polymers, coal, natural

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gas, and LNG.

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**Formulas: A Pocket**

**Guide to Chemical ...**

KNOVEL is a full text, online collection of over 5,000 handbooks, data collections, and encyclopedias for science and engineering. This collection includes a section on chemistry and chemical engineering. The

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**Facts, Formulas &  
Other Data -  
Chemical  
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CHEMICAL

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CMEN 202.3 R\*



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Chemical Engineering

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**Basic Principles and  
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Engineering**

Equations and

Formulas of Chemical

Reaction Engineering

**Equations and  
Formulas of  
Chemical Reaction  
Engineering**

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Engineering Formula

Sheet. Probability.

Conditional Probability.

Binomial Probability

(order doesn't matter)

$P_k$  (= binomial

probability of  $k$

successes in  $n$  trials  $p$

= probability of a

success -  $q$  =

probability of failure  $k$

= number of successes

$n$  = number of trials.

Independent Events.  $P$

( $A$  and  $B$  and  $C$ ) =  $P_A$ .

**Engineering Formula**

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**Sheet - madison-**

**lake.k12.oh.us**

10 Sheets. CheSheets

provide Chemical

Engineering

Spreadsheets

developed in Google

Sheets™ - a web based

spreadsheet program.

Explore. Fluid Flow. 14

Calculation. Calculation

include pressure losses

in pipe and fittings,

natural gas pipe sizing,

two phase flow, pump

sizing and compressor

rating.

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## **CheCalc** Formula Sheet

portant 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

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Murhammer,

## **ChemE**

Basic Thermodynamic

Formulas (Exam

Equation Sheet)

Control Mass (no mass

flow across system

boundaries)

Conservation of mass:

$$\dot{m} = \dot{m}_{in} - \dot{m}_{out}$$

## **Basic**

**Thermodynamic**

**Formulas (Exam**

**Equation Sheet)**

Substrate Biomass

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Product Degrees of Reduction (available electrons per unit of carbon)  $\gamma_s = 4 + m - 2n$ .  $\gamma_b = 4 + \alpha - 2\beta - 3\delta$   
 $\gamma_p = 4 + x - 2y - 3z$ .

Subscripts refer to substrate (s), biomass (b) or product (p). A high degree of reduction denotes a low degree of oxidation  
Carbon balance  $c + d + f = 1$   
Nitrogen balance.

## **FUNDAMENTALS OF**



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**ENGINEERING S**

**REFERENCE Sheet**

**HANDBOOK**

This article will help you improve your Excel spreadsheet skills and will provide you with tools to solve common chemical engineering problems. Ever since Lotus 1-2-3 and the IBM PC became popular in the early 1980s, chemical engineers have been using spreadsheets for day-to-day problem-

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solving.

## **Use Spreadsheets for ChE Problem- Solving | AIChE**

Thermodynamics  
sounds intimidating,  
and it can be.

However, if you hone in  
on the most important  
thermodynamic  
formulas and  
equations, get  
comfortable converting  
from one unit of  
physical measurement  
to another, and

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become familiar with the physical constants related to thermodynamics, you'll be at the head of the class.

## **Thermodynamics For Dummies Cheat Sheet - dummies**

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Mathematics in  
Chemical Engineering"  
within 3rd year of

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study. ... Draw a simplified imaginary sketch (block diagram) or a flow sheet or process flow diagram (PFD) consists of boxes which represent equipments, and lines which indicate all streams enter and leaves each equipment.

## **Basic Principles and Calculations in Chemical Engineering**

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The complete list of mechanical engineering basic formulas cheat sheet for PDF download to help users to use them offline to learn or workout how to execute or solve the various calculations of material characteristics (stress, strain, elasticity & toughness), power transmission (gears & belts), mechanical power (torque, horsepower &

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speed), IC engines,  
thermal, fluid, force,  
velocity ...

**Mechanical  
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Process Utilities is an  
Excel add-in for  
streamlining chemical  
engineering in Excel.

**Process Utilities |  
Excel Add-in**

As an engineer, you're  
probably using Excel

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almost every day. It doesn't matter what industry you are in; Excel is used EVERYWHERE in engineering. Excel is a huge program with a lot of great potential, but how do you know if you're using it to its fullest capabilities? These 9 tips will help you start... Read more about 9 Smarter Ways to Use Excel for Engineering



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**9 Smarter Ways to**

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Engineering Notes

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Mechanical

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