

Basic Principles In Chemical Engineering

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Basic Principles In Chemical Engineering

Welcome to Basic Principles and Calculations in Chemical Engineering. Several tools exist in the book in addition to the basic text to aid you in learning its subject matter. We hope you will take full advantage of these resources. Learning Aids 1. Numerous examples worked out in detail to illustrate the basic principles 2.

Basic Principles and Calculations in Chemical Engineering

This student-friendly introduction to the principles and calculations used in the field of chemical, petroleum, and environmental engineering is designed to help students 1) develop systematic problem-solving skills, 2) learn what material balances are, how to formulate, apply, and solve them, 3) learn what energy balances are and how to apply them, and 4) learn how to deal with the complexity of big problems.

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9- The Chemical Reaction Equation and Stoichiometry. 10- Material Balances for Processes Involving Reaction. 11- Material balance problems involving multiple units. 12- Recycle, bypass, purge and the industrial Application of material balances. 13- Ideal gases. 14- Real gases: compressibility. 15- Equations of state

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NPTEL :: Chemical Engineering - NOC:Basic Principles and ...

Place labels (symbols, numbers and units) on the diagram for all the known flows, materials and compositions. For the unknown flows, materials and compositions insert symbols and units.Add any other useful relations and information. Obtain any data you need to solve the problem but are missing. Choose a basis.

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Normality (N)—(gram equivalents of solute)/(liters of solution). Oxidation—the loss of electrons by an atom or group of atoms. pH—the negative logarithm (base 10) of the hydrogen ion concentration in gram ions per liter; Reduction—the gain of electrons by an atom or group of atoms. Solubility product (S.P. or K.

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Chemical engineering - Wikipedia

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