

Project evaluation in the chemical process industries

McGraw-Hill - PDF» Project Evaluation in the Chemical Process Industries by J. Frank Valle

CHE 2001A - REACTION KINETICS (PO-CHE 2001A)
Type of Chemical Reaction, Rate and Order of Reaction, General Rate Balance Equations, Rate and Continuous Reaction, Conversion and Reactor Sizing, Reactors in Series, Rate Laws & Stoichiometry, Stoichiometric Tables for Different Types of Reaction, Reaction with Phase Change, Industrial Reactor Design, Collection and Analysis of Kinetic Data, Catalytic and Enzyme Reactions.
CHE 2001B - SEPARATION TECHNOLOGY
Basic Physical-Chemical Principles underlying Separation Processes, Principles of Single-Phase Separation - Filtration, Crystallization, Distillation, Extraction, Centrifugation, Drying, Evaporation, Absorption, Adsorption, Ion Exchange, Membrane Separation, Chemical Control applicable to the Sugar Industry, By-products from Separation and their Utilization.
CHE 2001C - UNIT OPERATIONS (PO-CHE 2001C)
Unit Operations, Solids, Specific Characteristics, particulate solids in bulk; Size Reduction of Solids; Filtration; Membrane Separation Processes (Crystallization, Reverse Osmosis); Countercurrent Separation; Drying; Leaching; Distillation; Gas Absorption; Liquid-Liquid Extraction.
CHE 2001D - INDUSTRIAL TRAINING
Students will be placed in a firm for a period of at least 20 weeks. The objective is to provide the students with the opportunity to apply theoretical knowledge in their industrial placement and to function within the organizational structure of the firm. Students have to perform satisfactorily in this module before qualifying for the award of the degree.
CHE 2001E - CHEMICAL ENGINEERING ECONOMICS
Introduction to Chemical Engineering Economics, Capital Path Analysis and PERT Analysis of Projects, Income and Cost Estimation, Unit Index, Manufacturing Cost and Cost of Production, Depreciation, Taxes and Insurance, Break-Even Analysis, Profitability of Project using Ratios, Project Appraisal Techniques: Payback Period, Discounted Cash Flow Method, Net Present Value, Internal Rate of Return, Legal Financial Aspects.
CHE 2001F - CHEMICAL PROCESS DESIGN
Formulating Balance Problems, Degree of Freedom Analysis, Solution Strategy using D.O.F., Single and Partial Balances, Non-Reacting and Reacting Systems; Sequencing with Complete and Partial Balances; Strategy for Machine Calculations.
CHE 2001G - CHEMICAL PROCESS SAFETY AND LOSS PREVENTION
Overview & Evaluation of Exposure to Hazardous Substances (Hazard Control); Hazard and Operability Study; Process Risk Assessment; Occupational Health & Safety Management; Health & Safety Audit in work places; Types, Effect and Control of Noise; Noise Survey; Safety in Chemical Process Industry; Management of Health Hazards (types, health effects and controls).
CHE 2001H - DESIGN PROJECT I
Definition, definition, Process Consideration, Block Diagram, Mass Balances, Energy Balances, Preliminary Sizing of Equipment & Control, Control Strategy; Preliminary Pump, Basis for Detailed Design.
CHE 2001I - WASTEWATER MANAGEMENT (PO-CHE 2001I)
On-site Analysis of major Wastewater Characteristics: Biological oxygen demand (BOD) and chemical oxygen demand (COD); Nitrification and Denitrification; DO sag curve; Turbidity & Toxicity Studies; Sampling Techniques, Measurement Techniques; Water Pollution Sources; Water Recycling and Re-use; Treatment of Water Pollution at source; Wastewater Segregation; Sludge Handling & Disposal.
CHE 2001J - CHEMISTRY FOR ENVIRONMENTAL ENGINEERING
Fundamentals of Chemistry for Environmental Engineering: Parameters of Water and Wastewater Analysis (pH, acidity, alkalinity, hardness, salinity, dissolved oxygen, conductivity, total suspended Solids); Chemistry of Nitritation/Denitrification and Phosphorus removal.

Description: -

- Industrial project management -- Evaluation.
Chemical plants -- Management. Project evaluation in the chemical process industries

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Notes: Includes bibliographies and index.

This edition was published in 1983



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How EPA Evaluates the Safety of Existing Chemicals

Frank Valle-Riestra for online ebook Project Evaluation in the Chemical Process Industries by J.

Project evaluation in the chemical process industries (1983 edition)

Edited by Linked existing covers to the edition. Frank Valle-Riestra Doc Project Evaluation in the Chemical Process Industries by J. Assisting with de-risking capital projects from concept through completion is an important aspect of Fluor's delivery model.

Chapter 6: Costing and Project Evaluation

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Project Evaluation: Cost Estimating and Financial Analysis

The language that writer use to explained their way of doing something is easily to understand. For clarity, polish is a substance rubbed on the surface of materials to make them smooth and shiny.

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