IChemE Education Subject Group
Design Project Book List

Contributed by Dr John F Porter, Hong Kong University of Science & Technology, August-2000

(I have updated these for new editions where known. Some of these books are no longer in print, but may be in the library. Earlier editions are usually acceptable. If you use any in your Design Project, remember to give the year, edition and chapter or pages referred to. Martin Pitt, January 2003.)

General Process Information - PFDs etc.

- British Standard, BS1553 Part 1: (1976) *Graphical Symbols for Piping Systems and Plant*

General Design References


**Rules of Thumb**


**Flowsheet Development**


**Material & Energy Balances**


**Process Economics and Project Evaluation**

Health and Environmental Implications of Processes


Process Safety and Hazard & Operability Analyses

- CCPS (1985) *Guidelines for Hazard Evaluation Procedures*, Batelle-Columbus Division, Center for Chemical Process Safety (CCPS) of the AIChE, pp. 4-33 to 4-52.

P & I Diagrams and Control


Environmental Law


Pollution Prevention and Waste Minimisation

**Pollution Control Systems**


**Detailed Design of Heat Exchangers**

Detailed Design of Gas Phase Heterogeneous Catalytic Reactors


Detailed Design of Distillation Columns
Detailed Design of Absorbers

• Newman, S.A. (1985) *Acid and Sour Gas Treating Processes*, Gulf, pp. 42-51, 319-

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