

Department of Chemical Engineering  
Petrochemical and Process Safety (Contents)

**Contents:**

1. An introduction to Safety (By Case Study)
2. Process Safety
2. Material Safety
  - Flammability
  - Toxicity
  - MSDS (Material Safety Data Sheet)
- 3- General Design Consideration
  - Safety
  - Plant Location
  - Plant Layout
  - Direction of Prevailing Winds
- 4- Hazards & Protective Supply in Industrial processes

**Mark Distribution**

Project	%	Date:
Homework	%	Date:
Midterm	%	Date:
Final	%	Date:

**References:**

- 1- Armistead, G., "Safety in Petroleum Refining and Related Industries", Simmons, N.Y. 1959.
  - 2- Mecklenburgh, J.C., ed., "Plant Layout", London Hill, London, 1973.
  - 3- Cox, N.D., "Application of Reliability Theory to Process Design", Loss Prevention. Vol 1, 12. 1968.
  - 4- Handley, W., "Industrial Safety Handbook", McGraw-Hill, London, 1969.
  - 5- Hix, A.G., "Safety and Instrumentation Systems" C.E.P. Loss Prevention Vol. 4, 6. 1972.
- + Handbooks such as Mcketta, Ulman.