



# Ex.

# Feasibility of a Separation Method

- For each of the following binary mixtures, a separation operation is suggested.
- Explain why the operation will or will not be successful.
  - (a) Separation of air into oxygen-rich and nitrogen-rich products by distillation.
  - (b) Separation of m-xylene from p-xylene by distillation.
  - (c) Separation of benzene and cyclohexane by distillation.
  - (d) Separation of isopropyl alcohol and water by distillation.
  - (e) Separation of penicillin from water in a fermentation broth by evaporation of the water.

