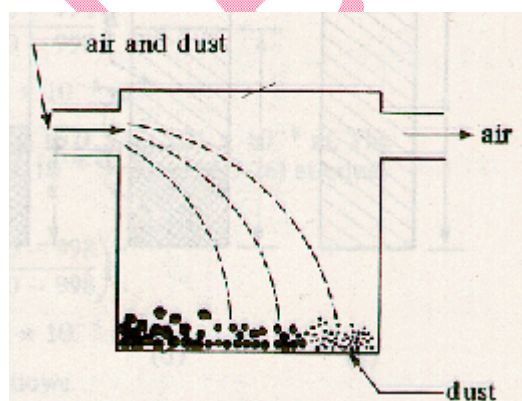
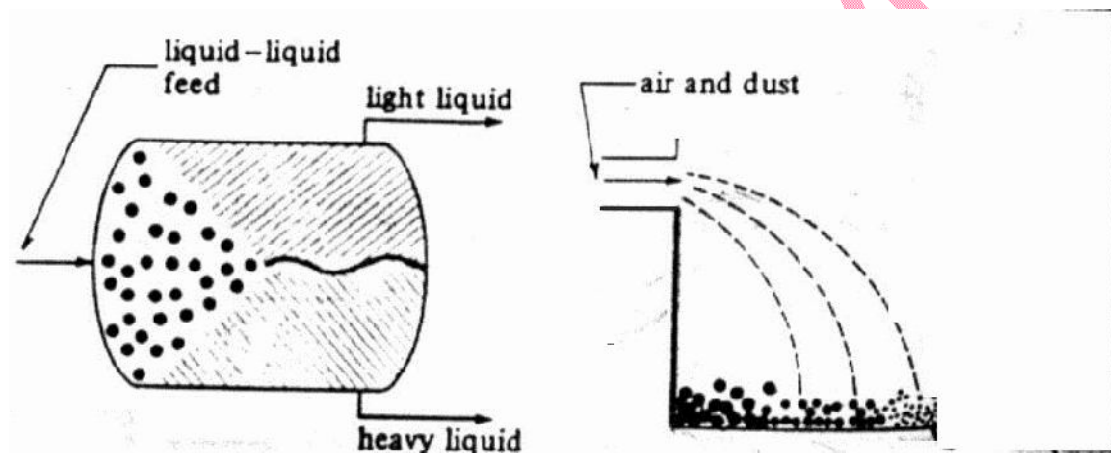


UNIT OPERATION

Equipment of settling and sedimentation

- 1- Simple gravity settling tank .
- 2- Equipment for classification .
- 3- Spitzkaston classifier .
- 4- Sedimentation thickener .

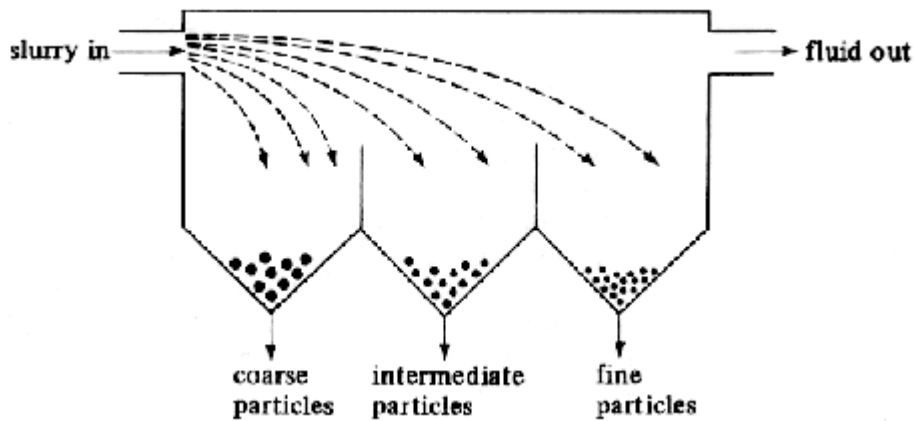
1- Simple gravity settling tank



UNIT OPERATION

2- Equipment for classification

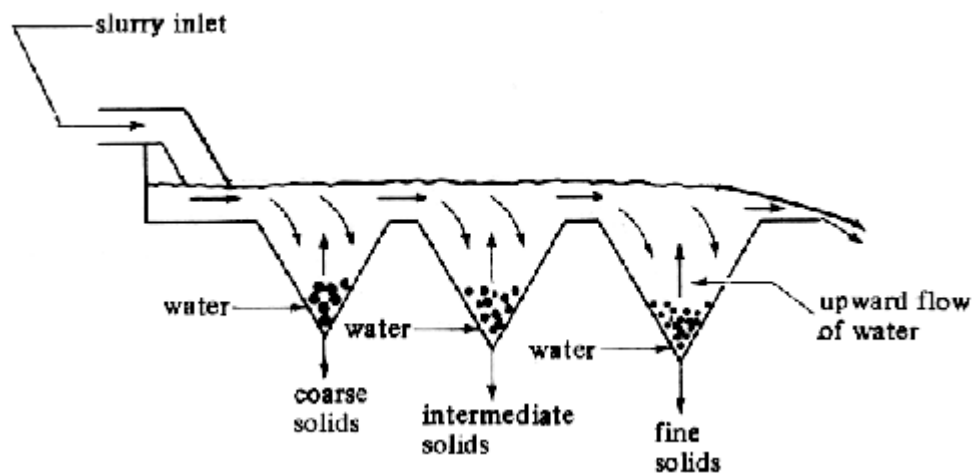
The simplest type of classifier is one in which a large tank is subdivided into several section



Simple gravity settler classifier

3- Spitzkasem classifier (Spitzkasten Chamber)

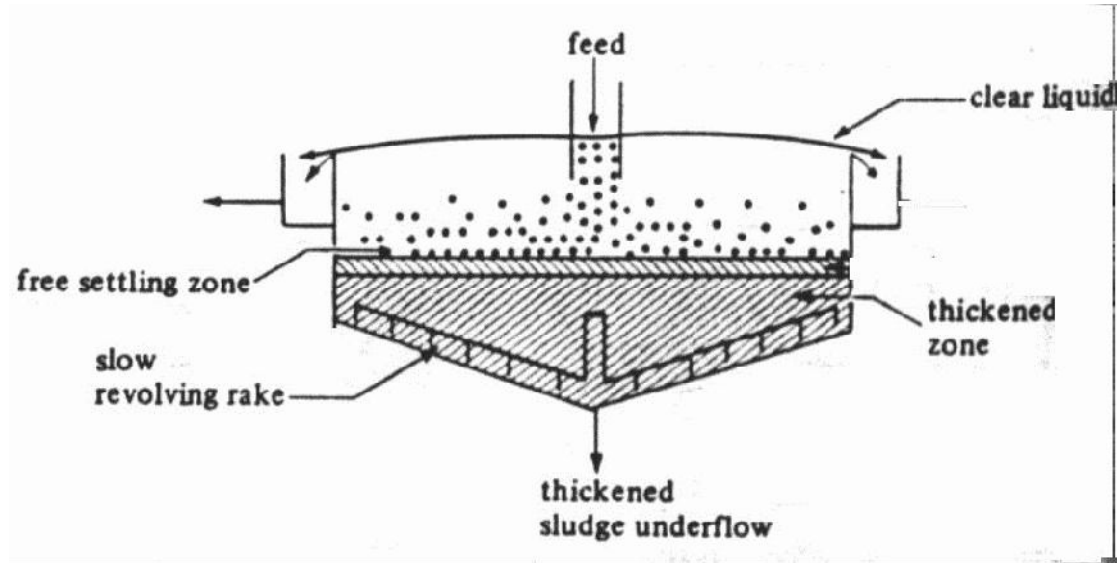
Consists of a series of conical vessels and increasing dia. in the direction of flow



Spitzkasten gravity settling chamber

UNIT OPERATION

4- Thickener



The continuous Thickener (Design calculations)

Thickener area (A)

In the settling zone of the tank of area (A) the volumetric rate of sedimentation of solids is given by :