

OPEN CHANNEL FLOW

Prepared by: Hoo Mun Keet

ABSTRACT

Open channel flow is an interesting title and challenging to me. In this title, I learn about types of flow in an open channel.

*Steady flow - Exists if the volume flow rate does not change during the interval time

*Unsteady flow - Exists if the channel volume flow rate does change with flow

*Uniform flow - Exists in a channel if liquid enters or leaves along the course of the flow

*Uniform flow - Exists if the depth is uniform at every section of the channel. Uniform flow is steady

*Steady uniform flow - Exists if the depth of flow does not change during the interval under consideration

*Unsteady uniform flow - Exists if the water surface fluctuates while remaining parallel to the channel bottom – practically impossible condition