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This course of lectures is an introduction to hydraulics, the traditional name for fluid mechanics in civil and environmental engineering where sensible and convenient approximations to apparently- complex situations are made.

A First Course in Hydraulics - JohnDFenton

Consider a small static cylinder of fluid, with axis of the cylinder (s-axis) tilted at an angle θ to the vertical, z-axis. Volume of fluid element = $dA ds$ Mass of fluid element $m = \rho dA ds$. Resolving

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forces in the s-direction. Gravitational force = $-mg = -\rho g dA ds$ (downwards).

Hydraulics 1: Course notes - University of Manchester

Source: Civil Engineering Reference Manual for the PE Exam, 10th Ed. (Lindeburg, 2006) Steel's formula encapsulates these two observations: $t b K i + =$ Steel formula $i =$ intensity (in/hr) $t =$ duration (min or hr depending on how K and b are defined) $K, b =$ constants empirically derived for a return period and location

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Lecture Series on Hydraulics by Dr.Arup Kumar Sarma, Department of Civil Engineering, IIT Guwahati. For more details on NPTEL visit <http://nptel.iitm.ac.in>.

Mod- 1 Lec-1 Introduction to Hydraulics

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