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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 forces

in the s -direction.

Gravitational force =

$-mg = -\rho g dA ds$

(downwards).

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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

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= constants empirically
derived for a return
period and location

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