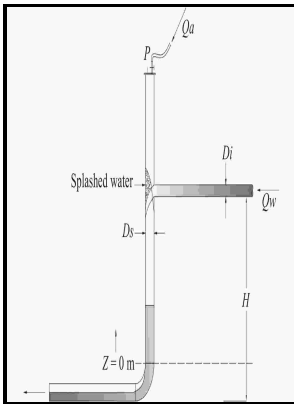


Study of air entrainment using plunging water jets.

- - Similitude of Air Entrainment at Vertical Circular Plunging Jets



Description: -

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Similitude of Air Entrainment at Vertical Circular Plunging Jets

When the water level in the tank exceeded the grid sink elevation, water flowed into the sink and got drained out of the tank through the bottom pipe. The ellipse nozzle provided the highest bubble penetration depth. Few studies have been conducted with a jet impingement height larger than 500 times the nozzle exit diameter, as summarized by.

Similitude of Air Entrainment at Vertical Circular Plunging Jets

The FOR technique is theoretically based on the coherent mixing of scattered signals with Fresnel reflection from the tip of an optical fiber.

A physical study of air

Figure shows the mean void fraction and the corresponding mean square variations of void fraction at position E and F.

The Effect of Nozzle Type on Air Entrainment by Plunging Water Jets

The backlight was adopted for photography, provided by a 600 mm × 600 mm array of high-power light-emitting diodes LED. The impact of subsequent drops is also qualitatively examined.

Oxygenation by Plunging Jet Aerators: A Review

Results show that the maximum mean void fraction is 0. Aeration by plunging jets is a suitable and attractive way of adding and mixing atmospheric oxygen into the liquid. It can be observed that the velocity converges as the repetition increases, and the mean velocity has basically converged after 15 repetitions.

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