

Title	The influence of surface tension on the circular hydraulic jump
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Publication details	Journal of Fluid Mechanics, 489, 229-238
DOI (if available)	<a href="https://doi.org/10.1017/S0022112003005159">https:// doi:10.1017/S0022112003005159</a>
Summary paragraph	The report presents the effect of surface tension on laminar circular hydraulic jump. On normal impingement of a liquid jet on a horizontal surface, the created flow field remains circularly symmetric and hence have radial curvatures. The authors considered the contribution of surface tension on the location of circular hydraulic jumps and obtained a mathematical expression for the magnitude of the radial curvature. The film upstream of the hydraulic jump is treated as laminar (Turbulent case not considered). Comparing their results with the experimental data obtained by Watson, they showed that incorporation of surface tension contribution gives better agreement with the data.
Novel/notable aspects	Effect of surface tension, boundary layer flow,
Flow key words	Surface tension, liquid jets, hydraulic jump, laminar boundary layer
Cleaning type key words or Research topic	
Field/background	Fluid mechanics
Theory/method/analysis key words	Surface tension, boundary layer flow, thin films, viscosity, laminar flow, turbulent film flow , force balance