Wall Shear Stress Under an Impinging Planar Jet Using the Razor Blade Technique

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Abstract : Wall shear stress was experimentally measured under a planar impinging air jet as a function of jet Reynolds number (Rejet = 5000, 8000, 11000) and different normalized impingement distances (H/D = 4, 6, 8, 10, 12) using the razor blade technique to complete a parametric study. The wall pressure, wall pressure gradient, and wall shear stress information were obtained.

Keywords : experimental fluid mechanics, impinging planar jets, skin friction factor, wall shear stress

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