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THE INVESTIGATION OF COOLING TOWER PACKING IN VARIOUS ARRANGEMENT

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ABSTRACT:

The effect of form with corrugated packing on heat transfer and pressure drop characteristics in atmospheric cooling towers has been .studied experiment tally. The results showed that the heat transfer coefficient decreased with increase in packing pitch and increase in the ratio of rib pitch to rib height. Friction factors were expressed by a dimensional equation which included pitch and distance between the packings , for both smooth and rough surface. From these results ,the relationship between packing heat transfer coefficient and pressure drop was deduced. The correlations were verified with additional experimental data taken with 1.1 < P/D < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1.1 < 1