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Experimental study of the external forced convection heat transfer of flat plate

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Abstract : An experiment was carried out in order to find the heat transfer coefficient of a flat plate in the process of cooling by forced convection, the plate has four thermocouples located at equal distance along this one, it was evidenced the change of the coefficient of heat transfer according to the position of the plate, and the non-dimensional parameters such as the Reynolds, Nusselt and Prandtl number were found, and the experimentally found data and the software data were compared.

Keywords: External forced convection, heat transfer.

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