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HEAT TRANSFER IN A BOUNDARY LAYER OF LIQUID IN A CYLINDRICAL PIPE

Abstract

Taking surrounding medium temperature as constant, non- stationary problem of heat transfer in liquid boundary layer in cylindrical pipe and between two concentric cylindrical pipes are solved. It is shown, for this approach temperature of liquid near sides keeps unchangeable during all the process. Presence of transverse temperature gradient between concentric cylindrical pipes is established, if temperature of he pipes are different, thereto this gradient changes its sign along pipe length.