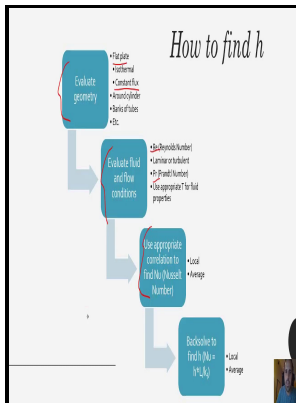# Some problems of flow, heat transfer, and diffusion in the laminar flow along a flat plate

The RAND Corporation - Solutions to Transport Phenomena Second (2nd) Revised Edition by Bird, Stewart, and Lightfoot (BSL)

Description: -
-Some problems of flow, heat transfer, and diffusion in the laminar flow along a flat plate
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U.S. Air Force. Project RAND. T-15Some problems of flow, heat transfer, and diffusion in the laminar flow along a flat plate
Notes: Bibliography: p. 22.
This edition was published in 1949

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Tags: #Unsteady #Heat #Transfer #of #Viscous #Incompressible #Boundary #Layer #Fluid #Flow #through #a #Porous #Plate #with #Induced #Magnetic #Field

Laminar vs Turbulent

Span-averaged Stanton number Heat transfer augmentation is always achieved with some pressure loss penalty in the case of passive techniques.

Heat Transfer Coefficient

Astrophysics and Space Science, 64, 391-399.

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Nusselt number is equal to the dimensionless temperature gradient at the surface, and it provides a measure of the convection heat transfer occurring at the surface. Basically, the dispersion on the shell side of heat exchangers may depend on the Reynolds number, Prandtl number and geometric structure. The conductive component is measured under the same conditions as the heat convection but with a stagnant fluid.

PLATE AND FRAME HEAT EXCHANGERS

The resulting governing system of dimensionless coupled non-linear partial differential equations is numerically solved by an explicit finite difference method.

Heat Transfer Coefficient

American Institute of Chemical Engineer, 7, 26-28.

Unsteady Heat Transfer of Viscous Incompressible Boundary Layer Fluid Flow through a Porous Plate with Induced Magnetic Field

The velocity profiles are shown on Figures 2-5.

PLATE AND FRAME HEAT EXCHANGERS

The pressure drop of condensing steam is a function of steam flow rate, pressure and temperature difference.

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