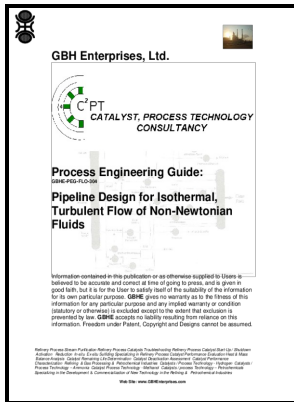


Fundamentals of heat transfer in non-Newtonian fluids

American Society of Mechanical Engineers - Electrokinetic



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- Non-Newtonian fluids -- Congresses.
Heat -- Transmission -- Congresses. Fundamentals of heat transfer in non-Newtonian fluids

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Heat Transfer to Non

With drag reducing fluids it is necessary to determine B from experimental pressure drop data. Freedom under Patent, Copyright and Designs cannot be assumed. However for rectangular ducts the secondary flows caused by normal stress differences acting on the fluid boundaries cause enhanced heat transfer due to elasticity effects.

NON

No design methods are currently available to take account of this kind of behavior.

Knovel

For noncircular ducts the Reynolds number is based on the hydraulic diameter of the duct cross-section. The effect of flow behavior index on the Nusselt number vanishes as the length scale ratio approaches infinity. Criterion for Transition to Turbulence during Natural Convection in External Flows of Non-Newtonian Fluids 6.

Heat Transfer to Non

Both Re and Pr are based on the apparent viscosity of the fluid.

Knovel

Shimazaki Heat Transfer to a Fluid Flowing Turbulently in a Smooth Pipe with Walls at Constant Temperature. Shear-sensitive products such as ketchup, shampoos, and egg whites must be throughout the system to preserve product integrity.

NON

However, above this value the heat transfer rate begins to rise sharply.

Experimental study of heat transfer to non

Obata, A numerical study on natural convective heat transfer of Pseudoplastic fluids in a square cavity, Numerical Heat Transfer, Part A: Applications, 41 2002 357—372.

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