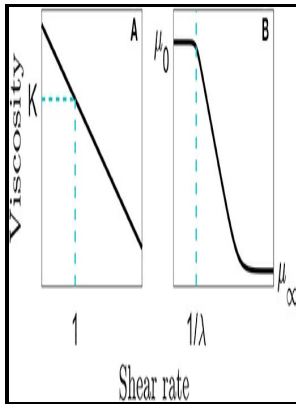


# Fundamentals of heat transfer in non-Newtonian fluids

American Society of Mechanical Engineers - Non



Description: -

- Non-Newtonian fluids -- Congresses.

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

- v. 174.

HTD (Series) ;

vol. 174

HTD ; Fundamentals of heat transfer in non-Newtonian fluids

Notes: Includes bibliographical references and index.

This edition was published in 1991



Filesize: 34.81 MB

Tags: #Newtonian #and #Non

## Electrokinetic

These results were computed by solving the equations of continuity, momentum and energy over the domain of interest. This chapter illustrates that useful engineering studies which deal with transport processes in non-Newtonian fluids have been underway for the past several years. Part II: Effect of various positions of inner cylinders, International Journal of Heat and Mass Transfer, 113 2017 1319—1331.

## Heat Transfer in Non

For viscoelastic fluids elastic effects become of significance only when secondary flows appear in the flow domain.

## Heat Transfer in Non

Pump efficiency at the given duty point is an important factor in achieving gentle product handling. Processing problems associated with viscosity and shear One common problem related to viscosity is excess power usage. Kahanovitz Turbulent-shear Flow of Polymer Solutions Israel J Technol, 4, 87-95 1966.

## Heat Transfer to Non

These fluids are referred to as shear-thinning or thixotropic.

## NON

The results reveal that increasing the length scale ratio tends to increase the friction coefficient. Since most non-Newtonian fluids have high viscosities, the hydrodynamic entrance length beyond which the flow becomes independent of axial distance is shorter than the thermal entrance length.

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