

Forced convective heat transfer in cylindrical pipe flows MD18060 Yoshinori-Hattori

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第1章 Introduction

1.1 Importance

In recent years, forced convective heat transfer in cylindrical pipe flow has been playing an important role in many technical cooling systems. These coolant technology is used wide variety of coolant applications such as electric devices, automotive, and plant factory. Considering heat transfer issues, heat transfer coefficients are one of the most important numbers. The Nusselt number (Nu) is a dimensionless number which represents the ratio of convective (h) and conductive heat transfer (k), as expressed in Equation.