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Three-Dimensional Flow and Heat Transfer within Highly Anisotropic Porous Media

Numerical Determination of Permeability Tensor, Inertial Tensor, and Interfacial Heat Transfer Coefficient

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6.1 Introduction

In order to design efficient heat transfer equipment, one must know the details of both flow and temperature fields within the equipment. Such detailed flow and temperature fields within a manmade assembly may be investigated numerically by solving the set of governing equations based on the first
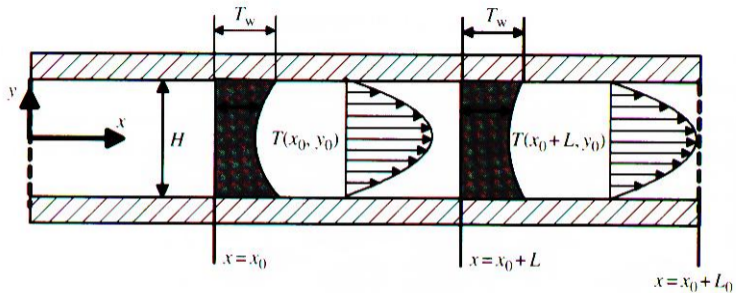
FIGURE 6.2
Fully developed channel flow.