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transport processes, which may be employed for measuring the dilute gas transport coefficients of non monatomic gases. In Part II, topics on gases discussed in Chaps. 2-5, are followed by chapters dealing with transport processes and, in particular, transport coefficients of liquids, the principal topics of this work.

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Transport Coefficients of the Lennard-Jones Model Fluid. I

hydrodynamic modes to the nonlocal transport coefficients of fluids has been studied in a consistent microscopic approach with allowance for the longitudinal and transverse momentum fluxes in a wide range of wave vectors [5-7].

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transport of fluids is through pipelines with pumps, blowers, compressors, or ejectors. Those categories of equipment will be considered in this chapter. A few ... represented in terms of the coefficients C_1 , C_2 , C_3 , and C_4 . For instance, the data of the pump of Figure 7.2(a) are transformed into

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viscosity is also referred to as the momentum diffusivity of the fluid, i.e. the ability of the fluid to transport momentum. The above discussion was based on unidirectional flow.

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