BP

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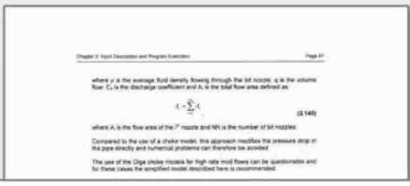
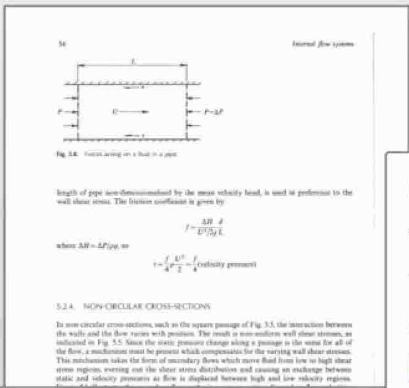
Hydraulic Diameter is Appropriate to Calculate Pressure Drop



A single pipe with a corresponding flow area is assumed, and in addition the wall interfacial friction is calculated based on a **hydraulic diameter**....



For many non-circular cross-sections a satisfactory procedure for calculating head losses is to replace the pipe diameter in the friction and Reynolds number equations by the **hydraulic diameter**.

Until a proven relationship for 'equivalent diameter' is forthcoming, there is no other choice than to use the **hydraulic diameter**.