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The evaluation of physical properties of hydrocarbon mixtures is an important step in the design of various stages of oilfield operations. The fluid properties, which change as pressure and temperature change, must be evaluated for both reservoir engineering and production design operations. For example, the production design operations.

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On the basis of their research work (Zhou and Shah, 2006; Zhou, 2006), the following friction factor correlation for Newtonian fluid flow in CT with roughness was proposed. (5.5) $f_{\text{rough}} = 0.084 \left(\frac{a}{R} \right)^{0.1} N_{\text{Re}}^{0.12} \left(0.125 + 0.00140 N_{\text{Re}}^{0.32} \right) \left[- 4.0 \log \left\{ \frac{h}{r} 3.7065 d - 5.0452 N_{\text{Re}} \log \left[1 + 2.8257 \left(\frac{h}{r} d \right)^{1.1098} + 5.8506 N_{\text{Re}}^{0.8981} \right] \right\} \right]^{-2}$

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Robert Penfold, Shabira Abbas, Sture Nordholm, Effective potential approach to bulk thermodynamic properties and surface tension of molecular fluids I. Single component n-alkane systems, Fluid Phase Equilibria, 10.1016/0378-3812(96)02995-0, 120, 1-2, (39-67), (1996).

Correlation of critical properties and acentric factor of ...

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Multiparameter corresponding states correlation of coal ...

Modelling of Diesel fuel properties through its surrogates using Perturbed-Chain, Statistical Associating Fluid Theory. International Journal of Engine Research 2020 , 21 (7) , 1118-1133.

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PROPERTIES OF FLUID - The Constructor

Prandtl numbers for this correlation should be between about 0.7 and 120, and the physical properties should

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be evaluated at the bulk fluid temperature. The Dittus – Boelter correlation itself is given by (9.20) $Nu = 0.023Re^{0.8}Pr^{0.4}$ $h_c = 0.023 k DRe^{0.8}Pr^{0.4}$

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