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Nanoparticle shape effects on thermal-hydraulic performance of boehmite alumina nanofluids in a sinusoidal-wavy mini-channel with phase shift and variable wavelength

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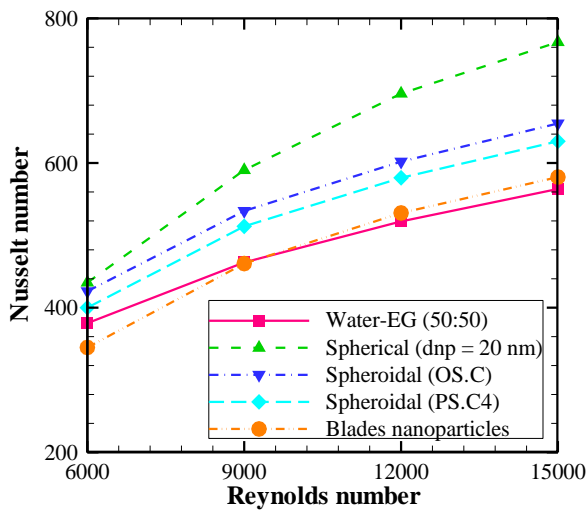
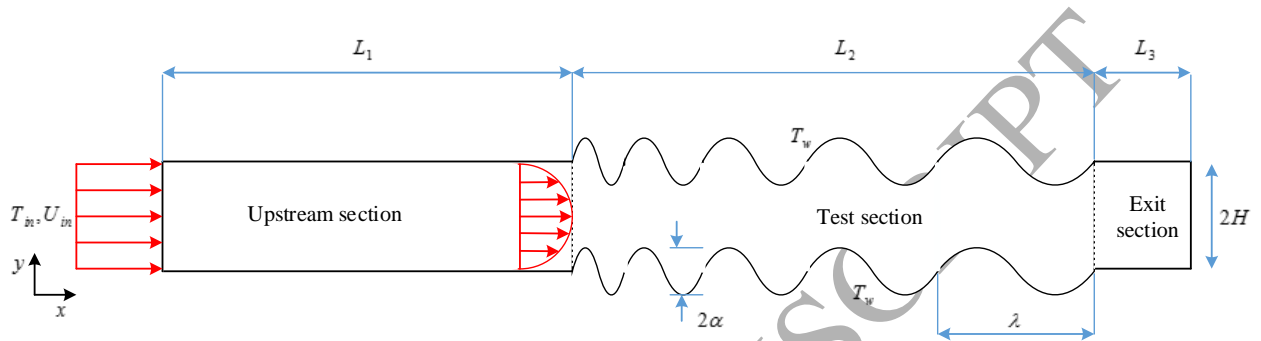
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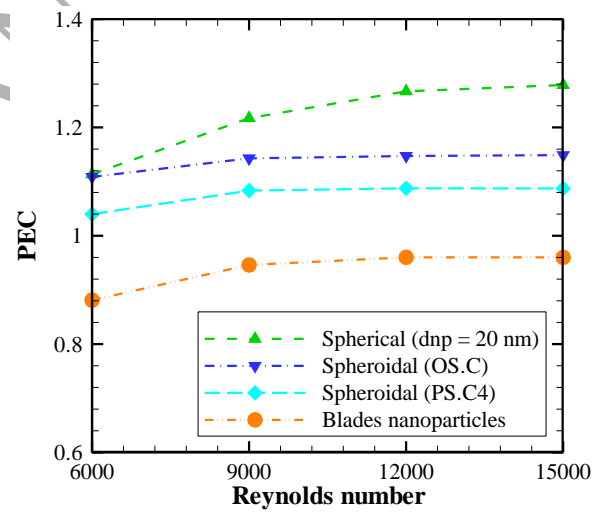
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## Graphical abstract



(a)



(b)

Comparison between base fluid and optimum models with nanoparticle volume fraction of  $\phi = 4\%$  on:  
 (a) average Nusselt number, and (b) PEC

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