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Analysis of Exergy and energy in shell and helically coiled finned tube heat exchangers and design optimization

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Highlights:

1. *Annular fins are added to the outer surface of the helical coiled tube for intensification of the heat transfer.*
2. *The effect of fins geometry and the inlet mass flow rate of the shell side, on the Exergy loss is obtained.*
3. *The optimal values of the geometrical and operational parameters can be estimated using the suggested correlations.*

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