## Accepted Manuscript

Title: Optimising Heat Exchanger Network Synthesis using Convexity Properties of the Logarithmic Mean Temperature Difference



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## ACCEPTED MANUSCRIPT

- Prove convexity characteristics of log mean temperature difference and its reciprocal
- Extend these convexity results to powers involving concave cost functions
- Develop an MILP approximation method based on these convexity results
- Show that we can rigourously bound errors in the SYNHEAT MINLP model

A contraction

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