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Thermodynamic Considerations for Optimal Thermal Compressor Design

Marcel A. Staedter , Srinivas Garimella

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**Highlights**

- Framework for modeling of thermal compressor
- Desorption/Rectification comparison for ammonia-water systems
- Identification of relevant variables for design and control
- First-law and second-law optimization
- Diabatic distillation for ammonia-water desorption and rectification
- Generalization of relationship between first-law and second-law optimization
- Statistical analyses with regression and Artificial Neural Networks

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