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THERMODYNAMIC SIMULATION OF AMMONIA-WATER ABSORPTION REFRIGERATION SYSTEM

ABSTRACT

The ammonia-water absorption refrigeration system is attracting increasing research interests, since the system can be powered by waste thermal energy, thus reducing demand on electricity supply. The development of this technology demands reliable and effective system simulations. In this work, a thermodynamic simulation of the cycle is carried out to investigate the effects of different operating variables on the performance of the cycle. A computer program in C language is written for the performance analysis of the cycle.

KEYWORDS

[absorption refrigeration](#), [ammonia-water](#), [sustainable development](#), [operating variables](#), [performance](#), [thermodynamic analysis](#)

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