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Thermal System Modeling - 3 - equation,  
 $\lambda$ th stands for the specific heat  
conductance,  $c$  for the specific thermal

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capacitance and  $\rho$  for the density of the material.  $T$  describes the temperature and  $x$  the coordinates in the direction of heat propagation.

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modeling the dynamic response of cross flow heat exchangers are important for



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the design of cooling and thermal control systems to improve energy efficiency and thermal reliability.

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performance of multipass parallel cross-flow and counter-cross-flow heat exchangers has been carried out by applying a new numerical procedure. According to this procedure, the heat exchanger is discretized into small elements following the tube-side fluid circuits.

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cross-flow arrangements with one or more rows. Very small relative errors are obtained showing the accuracy of the present model.  $\epsilon$ -NTU curves for several

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complex circuit arrangements are presented. The model developed represents a useful research tool for theoretical and experimental studies on heat exchangers performance.

## **EFFECTIVENESS-NTU COMPUTATION WITH A MATHEMATICAL MODEL ...**

The present work concerns parametric

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analysis and case study of the performance of a newly suggested Multi Drain Heat Recovery System (MDHRS) that use...

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In the present work, the single-phase thermohydraulic performance of cross-



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