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From the Back Cover. This monograph introduces a numerical computational methodology for thermal performance modeling of cross-flow heat exchangers, with applications in chemical, refrigeration and automobile industries. This methodology allows obtaining effectiveness-number of transfer units (  $e - NTU$ ) data and has been used for simulating several standard and complex flow arrangements configurations of cross-flow heat exchangers.

## **Thermal Performance Modeling of Cross-Flow Heat Exchangers ...**

This monograph introduces a numerical computational methodology for thermal performance modeling of cross-flow

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heat exchangers, with applications in chemical, refrigeration and automobile industries.

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Introduction. This monograph introduces a numerical computational methodology for thermal performance modeling of cross-flow heat exchangers, with applications in chemical, refrigeration and automobile industries. This methodology allows obtaining effectiveness-number of transfer units (  $\epsilon$  - NTU) data and has been used for simulating several standard and complex flow arrangements configurations of cross-flow heat exchangers.

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Thermal System Modeling - 3 - equation,  $\lambda$  stands for the specific heat conductance,  $c$  for the specific thermal capacitance and  $\rho$  for the density of the material.  $T$  describes the temperature and  $x$  the coordinates in the direction of heat

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propagation.

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modeling the dynamic response of cross flow heat exchangers are important for the design of cooling and thermal control systems to improve energy efficiency and thermal reliability.

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exchanger is solved numerically in order to predict the transient response under step changes in the fluid mass flow rate and the fluid inlet temperature.

### **Review and Analysis of Cross Flow Heat Exchanger Transient ...**

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

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