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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.

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Thermal performance modeling of cross-flow heat exchangers ...
It constitutes a useful numerical methodology for computing the thermal performance parameters for, among other, cross-flow heat exchangers with diverse flow arrangements.

Thermal Performance Modeling of Cross-Flow Heat Exchangers ...
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Thermal Performance Modeling of Cross-Flow Heat Exchangers ...
Thermal System Modeling - 3 - equation, λth stands for the specific heat conductance, c for the specific thermal capacitance and ρ for the density of the material. T describes the temperature and x the coordinates in the direction of heat propagation.

Thermal Modeling of Power-electronic Systems
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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Modeling Of Cross Flow Springerbrie
In this work, a dynamic thermal model for a cross flow heat 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.

Thermal Performance of Multipass Parallel and Counter ...
Thermal charts show the thermal performance of each series and specific product equipped with various window options. ... Cross section drawings are detailed diagrams that allow the viewer to see the structure of our doors and windows as if looking at a piece of the product cut to expose the inner workings of all the parts. These drawings are ...

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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. ε-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...

Multi drain heat recovery system – Thermal Modeling ...
In the present work, the single-phase thermohydraulic performance of cross-corrugated plate heat exchanger (PHE) with different corrugation angles 30°...