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Fin Shape Thermal Optimization Using Bejans Constructal Theory

By Giulio Lorenzini

Morgan & Claypool Publishers. Paperback. Condition: New. 220 pages. Dimensions: 9.2in. x 7.5in. x 0.6in. The book contains research results obtained by applying Bejans Constructal Theory to the study and therefore the optimization of fins, focusing on T-shaped and Y-shaped ones. Heat transfer from finned surfaces is an example of combined heat transfer natural or forced convection on the external parts of the fin, and conducting along the fin. Fins heat exchange is rather complex, because of variation of both temperature along the fin and convective heat transfer coefficient. Furthermore possible presence of more fins invested by the same fluid flow has to be considered. Table of Contents: General Introduction General Overview on Heat Transfer Conservation Equations Dimensionless group Units and conversion factors Overview of heat transfer on extended surfaces State of the art in the T-Shaped Fins Thermal exchange basis T-Shaped fins Y-Shaped fins Modular systems of Y-Shaped fins Heat removal vs Pressure drops Conclusions This item ships from multiple locations. Your book may arrive from Roseburg,OR, La Vergne,TN. Paperback.



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