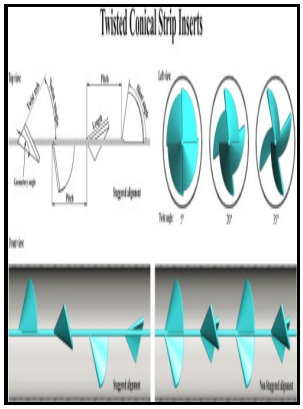
Heat transfer augmentation in turbulent flows

Lithuanian Energy Institute - Heat transfer augmentation in developing flow through a ribbed square duct



Description: -
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Electronic spreadsheets.
Business -- Computer programs.
Lotus 1-2-3 (Computer file)
Turbulence.
Heat -- Transmission.Heat transfer augmentation in turbulent flows
-Heat transfer augmentation in turbulent flows
Notes: Includes bibliographical references (p. 215-225) and index.
This edition was published in 1995

Filesize: 18.94 MB

Tags: #Heat #transfer #enhancement

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With all the thermal performance factors above than unity for the present twisted helical coils, the twisted coil with the twist ratio of three channel hydraulic diameters offers the maximum 19% of heat transfer elevation and 69.

The Physical Mechanism of Heat Transfer Augmentation in Stagnating Flows Subject to Freestream Turbulence

Effect of Prandtl number on development of heat transfer in a tube.

Heat transfer enhancement

Based on the numerical heat-transfer and pressure-drop results, two sets of correlations that permit the evaluations of averaged Nusselt number at developed flow regime and the Fanning friction factor of the twisted helical coils are developed for relevant applications.

Heat transfer enhancement

Rough Tubes Artificial two- and three-dimensional roughness is often used for augmentation of heat transfer. In the walls of buildings the above formula can be used to derive the formula commonly used to calculate the heat through building components. International Communications in Heat and Mass Transfer, 37, 850-856.

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