

## Kern Kraus Extended Surface Heat Transfer

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[Extended Surface Heat Transfer - Allan D. Kraus, Abdul ...](#)

A revision of the classic reference originally authored by Kern and Kraus (McGraw-Hill, late 1960s) on the subject of extended surfaces. Coverage of all facets of extended surface technology including, compact heat exchangers, periodic heat flow and boiling off finned surfaces.

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Kern, D.Q. and Kraus, A.D. (1972) Extended Surface Heat Transfer, McGrawHill, New York.

Extended Surface Heat Transfer in Heat Exchangers and ...

The exact analysis of the heat transfer over an extended surface is a very complicated problem, involving such considerations as three-dimensional heat flow in the fins and the coolant, convection between the fins and coolant, boundary layer inhibition at the fin-coolant interface, and the flow pattern of the coolant. Thus to compare the performance of any two proposed fin configurations in ...

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Kays and London (1958) provided experimental correlations for a wide range of configurations adopted in compact extended surface heat exchangers and presented test data on finned circular tubes. Kern and Kraus (1972), among others, have presented fin efficiency curves for heat transfer from circumferential fins.

A characteristic correlation for heat transfer over ...

Kern, Donald Quentin, and Allan D. Kraus. Extended Surface Heat Transfer. McGraw-Hill, 1972... Thulukkanam, Kuppan.

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Kern DQ and Kraus AD Extended Surface Heat Transfer 1972 McGraw Hill New York from ENG 316K at University of Texas

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D. Q. Kern and A. D. Kraus, Extended surface heat transfer, McGraw Hill, New York (1972). 3. K. Laor and H. Kalman, Int. Uomm. gear Mass Transfer, 19, 569 (1992). 4.

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