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Based on Kern and Kraus' out-of-print classic, Extended Heat Transfer, this book covers all facets of today's extended surface technology.

Mathematical techniques in extended surface analysis ...
Kern, D.Q. - 1950 - Process Heat Transfer. EMBED (for wordpress.com hosted blogs and archive.org item <description> tags)

Kern Kraus Extended Surface Heat
Features 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.

Extended Surface Heat Transfer in Heat Exchangers and ...
Efficiency of Extended Surfaces with Simultaneous Heat and Mass Transfer A.H. Elmahdy R.C. Biggs ASHRA E Member ABSTRACT An algorithm is presented to determine the efficiency of extended surfaces (circular or longitudinal fins with a uniform thickness) when simultaneous heat and mass transfer occur.

Efficiency of extended surfaces with simultaneous heat and ...
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Convection from a thin conducting fin. In a surface extension such as a fin, there exists an internal distribution of energy transfer by conduction which is dependent on convective dissipation around the fin boundary. The function of the fin is to enhance heat transfer beyond that possible with a plain surface,...

Extended Surface Heat Transfer | Thermodynamics | General ...
Introduction The term extended surfaceis used to describe a system in which the area of a surface is increased by the attachment of fins. A fin accommodates energy transfer by conduction within its boundaries, while its exposed surfaces transfer energy to the surroundings by convection or radiation or both.

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Extended surface heat transfer (eBook, 1972) [WorldCat.org]
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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Extended Surface Heat Transfer - Heat Treating Society
Allan D. Kraus, PhD, is Professor of Mechanical Engineering at the University of Akron, Ohio, and is principal associate at Allan D. Kraus Associates. He is the author of many works on thermal systems.

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The customary method for analyzing the performance of extended surface in a heat exchanger involves setting up a system of differential equations, one for each fin in the array, and coupling these equations through boundary conditions which express continuity of the variables.

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

Kern, D. Q. 1950 Process Heat Transfer - Internet Archive
As shown by Kern and Kraus [2] in their excellent treatment of non-uniform heat transfer coefficient, a monotonically increasing value of h may lead to a marked decrease in fin efficiency. This of course is explained by the fact that smallest values of h are now associated with the largest fin to fluid temperature differences and vice-versa.