

Fig. 6 Efficiency of Annular Fins with Constant Metal Area for Heat Flow

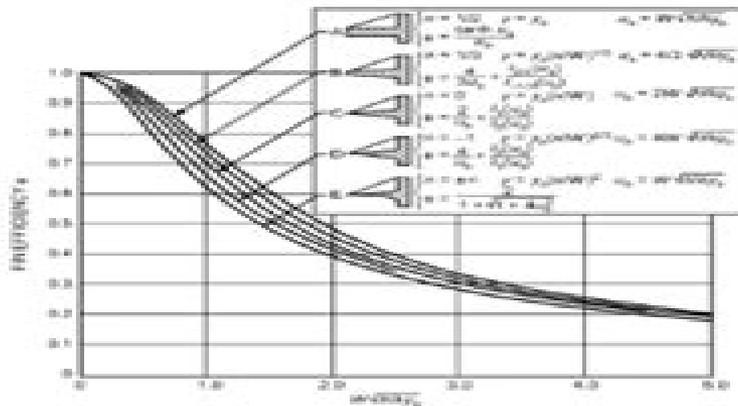


Fig. 7 Efficiency of Several Types of Straight Fins

### Extended Surfaces

Heat transfer from a surface can be increased by attaching fins or extended surfaces to increase the area available for heat transfer. A few common fin geometries are shown in Figures 5 to 8. Fins provide a large surface area in a low volume, thus lowering material costs for a given performance. To achieve optimum design, fins are generally located on the side of the heat exchanger with lower heat transfer coefficients (e.g., the air side of an air-to-water coil). Equipment with extended surfaces includes natural- and forced-convection coils and shell-and-tube evaporators and condensers. Fins are also used inside tubes in condensers and dry expansion evaporators.

**Fin Efficiency.** As heat flows from the root of a fin to its tip, temperature drops because of the fin material's thermal resistance. The temperature difference between the fin and surrounding fluid is therefore greater at the root than at the tip, causing a corresponding variation in heat flux. Therefore, increases in fin length result in proportionately less additional heat transfer. To account for this effect, **fin efficiency**  $\phi$  is defined as the ratio of the actual heat transferred

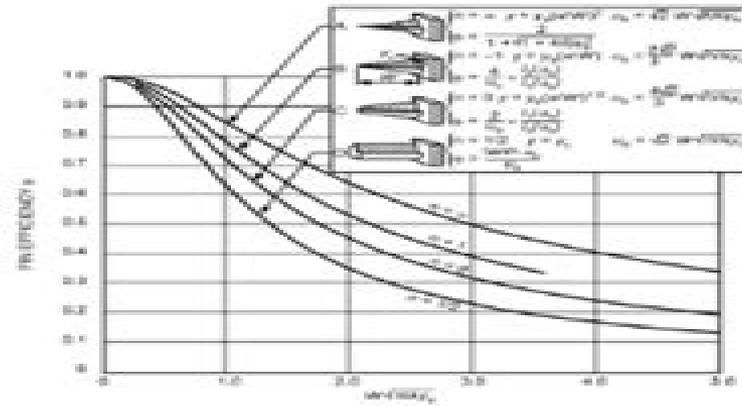


Fig. 8 Efficiency of Four Types of Spines

from the fin to the heat that would be transferred if the entire fin were at its root or base temperature:

$$\phi = \frac{q}{hA_s(T_s - T_a)} \quad (6)$$

where  $q$  is heat transfer rate into/out of the fin's root,  $T_s$  is temperature of the surrounding environment,  $T_a$  is temperature at fin root, and  $A_s$  is surface area of the fin. Fin efficiency is low for long or thin fins, or fins made of low-thermal-conductivity material. Fin efficiency decreases as the heat transfer coefficient increases because of increased heat flow. For natural convection in air-cooled condensers and evaporators, where the air-side  $h$  is low, fins can be fairly large and fabricated from low-conductivity materials such as steel instead of from copper or aluminum. For condensing and boiling, where large heat transfer coefficients are involved, fins must be very short for optimum use of material. Fin efficiencies for a few geometries are shown in Figures 5 to 8. Temperature distribution and fin efficiencies for various fin shapes are derived in most heat transfer texts.

# Ashrae H Fundamentals Chapter 35

**Yan Bai**



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