

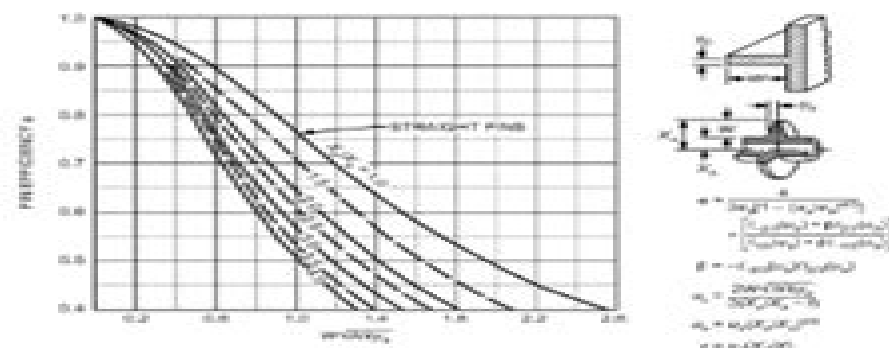


Fig. 6 Efficiency of Annular Fins with Constant Metal Area for Heat Flow

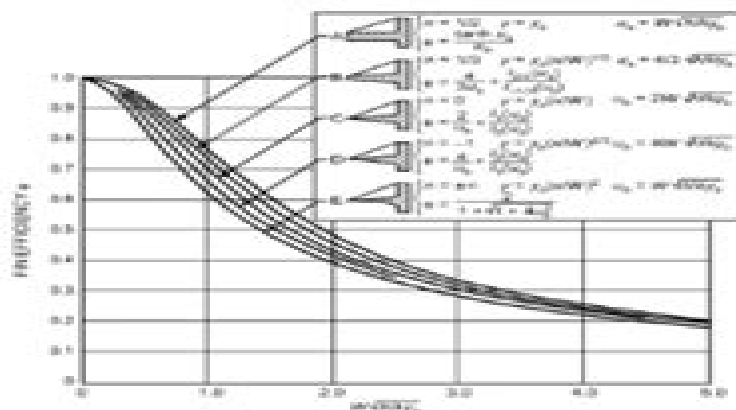


Fig. 7 Efficiency of Several Types of Straight Fins

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 ϕ** is defined as the ratio of the actual heat transferred

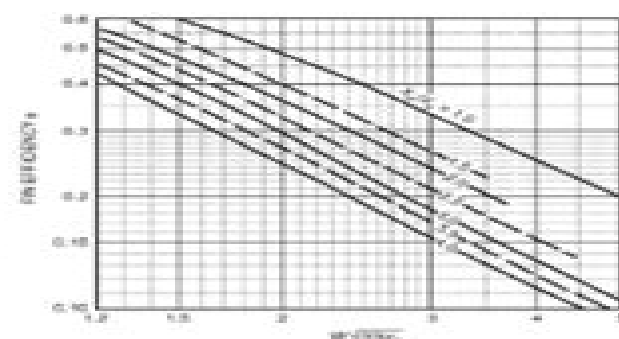


Fig. 8 Efficiency of Four Types of Spines

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

$$\phi = \frac{q}{hA_s(T_b - T_\infty)} \quad (6)$$

where q is heat transfer rate into/out of the fin's root, T_∞ is temperature of the surrounding environment, T_b 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.

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Ilhami Yildiz



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Ventilation and Infiltration American Society of Heating, Refrigerating and Air-Conditioning Engineers, 2001

Handbook of Climate Change Mitigation and Adaptation Maximilian Lackner, Baharak Sajjadi, Wei-Yin Chen, 2025-09-26

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Building Ventilation Mat Santamouris, Peter

Wouters, 2006-06-01 Ensuring optimum ventilation performance is a vital part of building design. Prepared by recognized experts from Europe and the US and published in association with the International Energy Agency's Air Infiltration and Ventilation Centre AIVC, this authoritative work provides organized, classified and evaluated information on advances in the key areas of building ventilation relevant to all building types. Complexities in airflow behaviour, climatic influences, occupancy patterns and pollutant emission characteristics make selecting the most appropriate ventilation strategy especially difficult. Recognizing such complexities the editors bring together expertise on each key issue. From components to computer tools, this book offers detailed coverage on design, analysis and performance and is an important and comprehensive publication in this field. Building Ventilation will be an invaluable reference for professionals in the building services industry, architects, researchers including postgraduate students studying building service engineering and HVAC and anyone with a role in energy efficient building design.

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Nandagopal, 2024-03-07 This book provides a clear and concise understanding of the principles and applications of HVACR.

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Bobenhausen,1994-04-14 A practical overview of what to consider when designing a building s heating cooling ventilating and humidifying systems along with their space power control and other requirements Includes the latest concepts applications basic design problems and their solutions Packed with examples to facilitate understanding

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United States. Congress. Senate. Select Committee on Small Business,1975 *Energy Research and Development and Small Business: how much? How much more from small business? How soon?* United States. Congress. Senate. Select Committee on Small Business,1975

Performance Based Building Design 1 Hugo S. L. Hens,2012-10-07

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Indoor Air Quality Research United States.

Congress. House. Committee on Science and Technology. Subcommittee on Energy Development and Applications,1984

Legislation to improve airline safety United States. Congress. House. Committee on Public Works and Transportation. Subcommittee on Aviation,1984

The Industrial Environment - Its Evaluation and Control United States. Public Health Service. Division of Occupational Health,1965

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American National Standard for Laboratory Ventilation Aiha,2003

Controlled Environment Engineering İlhami Yildiz,2025-12-15 This integrated book introduces broad engineering concepts and relevant

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Handbook of Energy Efficiency in Buildings Umberto Desideri, Francesco Asdrubali, 2018-11-12 Handbook of Energy Efficiency in Buildings A Life Cycle Approach offers a comprehensive and in depth coverage of the subject with a further focus on the Life Cycle The editors renowned academics invited a diverse group of researchers to develop original chapters for the book and managed to well integrate all contributions in a consistent volume Sections cover the role of the building sector on energy consumption and greenhouse gas emissions international technical standards laws and regulations building energy efficiency and zero energy consumption buildings the life cycle assessment of buildings from construction to decommissioning and other timely topics The multidisciplinary approach to the subject makes it valuable for researchers and industry based Civil Construction and Architectural Engineers Researchers in related fields as built environment energy and sustainability at an urban scale will also benefit from the books integrated perspective Presents a complete and thorough coverage of energy efficiency in buildings Provides an integrated approach to all the different elements that impact energy efficiency Contains coverage of worldwide regulation

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Energy Efficient Standards for Residential and Non-Residential Buildings (1993) ,1993-06 Lists the California code regulations for energy efficient standards for residential and nonresidential buildings *Energy Dynamics of Green Buildings* Mohammad H. Naraghi,2020

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