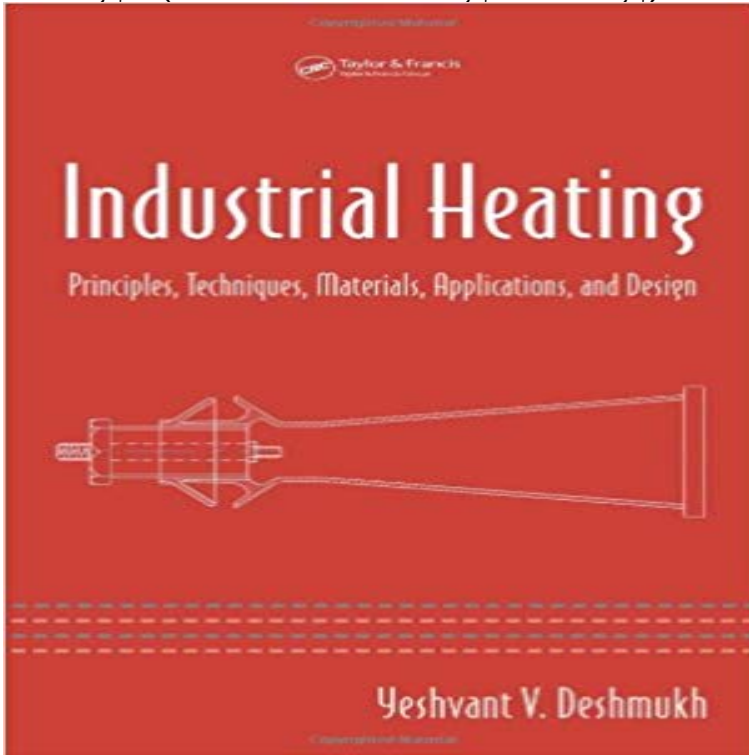


# Industrial Heating: Principles, Techniques, Materials, Applications, and Design (Mechanical Engineering)



Industry relies on heating for a wide variety of processes involving a broad range of materials. Each process and material requires heating methods suitable to its properties and the desired outcome. Despite this, the literature lacks a general reference on design techniques for heating, especially for small- and medium-sized applications. *Industrial Heating: Principles, Techniques, Materials, Applications, and Design* fills this gap, presenting design information for both traditional and modern heating processes and auxiliary techniques. The author leverages more than 40 years of experience into this comprehensive, authoritative guide. The book opens with fundamental topics in steady state and transient heat transfer, fluid mechanics, and aerodynamics, emphasizing analytical concepts over mathematical rigor. A discussion of fuels, their combustion, and combustion devices follows, along with waste incineration and its associated problems. The author then examines techniques related to heating, such as vacuum technology, pyrometry, protective atmosphere, and heat exchangers as well as refractory, ceramic, and metallic materials and their advantages and disadvantages. Useful appendices round out the presentation, supplying information on underlying principles such as pressure and thermal diffusivity. Replete with illustrations, examples, and solved problems, *Industrial Heating* provides a much-needed treatment of all aspects of heating systems, reflecting the advances in both process and technology over the past half-century.

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