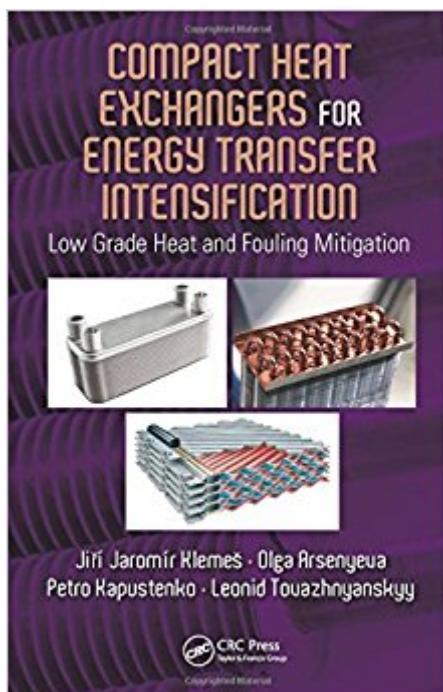


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Compact Heat Exchangers For Energy Transfer Intensification: Low Grade Heat And Fouling Mitigation



Synopsis

Compact Heat Exchangers for Energy Transfer Intensification: Low-Grade Heat and Fouling Mitigation provides theoretical and experimental background on heat transfer intensification in modern heat exchangers. Emphasizing applications in complex heat recovery systems for the process industries, this book: Covers various issues related to low-grade heat, including waste heat from industry and buildings, storage and transport of thermal energy, and heat transfer equipment requirements Explains the basic principles, terminology, and heat transfer aspects of compactness, as well as the concept of intensified heat area targets at process integration Pays special attention to the mitigation of fouling in heat exchangers and their systems, describing fouling deposition and threshold fouling mechanisms Delivers a thoughtful analysis of the economics of implementation, considering energyâ “capital trade-off, capital cost estimation, and energy prices Presents illustrative case studies of specific applications in food and chemical production plants Compact Heat Exchangers for Energy Transfer Intensification: Low-Grade Heat and Fouling Mitigation not only highlights key developments in compact heat exchangers, but also instills a practical knowledge of the latest process integration and heat transfer enhancement methodologies.

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