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Autor: Das, Sarit K

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The present text is aimed at giving the students a substantial feel of the fundamentals of heat transfer applied to process industry. Though the introduction of the material is made at the undergraduate level for a first course in 'Process Heat Transfer', it includes enough advanced material for postgraduate courses on 'Process Heat Transfer' or 'Heat Exchangers'. The book starts with summary of single phase heat transfer. Subsequently classification, selection and basic theory of heat transfer equipment are explained. Based on this, traditional heat exchangers as well as stirred tanks are treated in detail. Special emphasis has been laid on plate type heat exchangers. The second part of the book introduces two-phase heat transfer followed by apparatus dealing with phase change such as condensers, evaporators, reboilers and cooling towers. Finally, recent advances in process optimization through pinch technology and energy analysis along with transient response of heat exchangers are introduced. The book stresses on design approach.