

KERN'S **PROCESS** **HEAT** **TRANSFER**

2nd
Edition

Ann Marie Flynn
Toshihiro Akashige
Louis Theodore

 **scrivener**
publishing

WILEY

Process Heat Transfer By Kern Solution

Alan Jesse Chapman



Process Heat Transfer By Kern Solution:

Kern's Process Heat Transfer Ann Marie Flynn, Toshihiro Akashige, Louis Theodore, 2019-05-16 This edition ensures the legacy of the original 1950 classic *Process Heat Transfer* by Donald Q Kern that by many is held to be the gold standard. This second edition book is divided into three parts: Fundamental Principles, Heat Exchangers and Other Heat Transfer Equipment Considerations. Part I provides a series of chapters concerned with introductory topics that are required when solving heat transfer problems. This part of the book deals with topics such as steady state heat conduction, unsteady state conduction, forced convection, free convection, and radiation. Part II is considered by the authors to be the meat of the book and the primary reason for undertaking this project. Other than minor updates, Part II remains relatively unchanged from the first edition. Notably, it includes Kern's original design methodology for double pipe shell and tube and extended surface heat exchangers. Part II also includes boiling and condensation, boilers, cooling towers, and quenchers, as well as newly designed open ended problems. Part III of the book examines other related topics of interest, including refrigeration and cryogenics, batch and unsteady state processes, health safety, and the accompanying topic of risk. In addition, this part also examines the impact of entropy calculations on exchanger design. A 36 page Appendix includes 12 tables of properties, layouts, and design factors. **WHAT IS NEW IN THE 2ND EDITION** Changes that are addressed in the 2nd edition so that Kern's original work continues to remain relevant in 21st century process engineering include: Updated Heat Exchanger Design, Increased Number of Illustrative Examples, Energy Conservation, Entropy Considerations, Environmental Considerations, Health Safety, Risk Assessment, Refrigeration and Cryogenics.

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