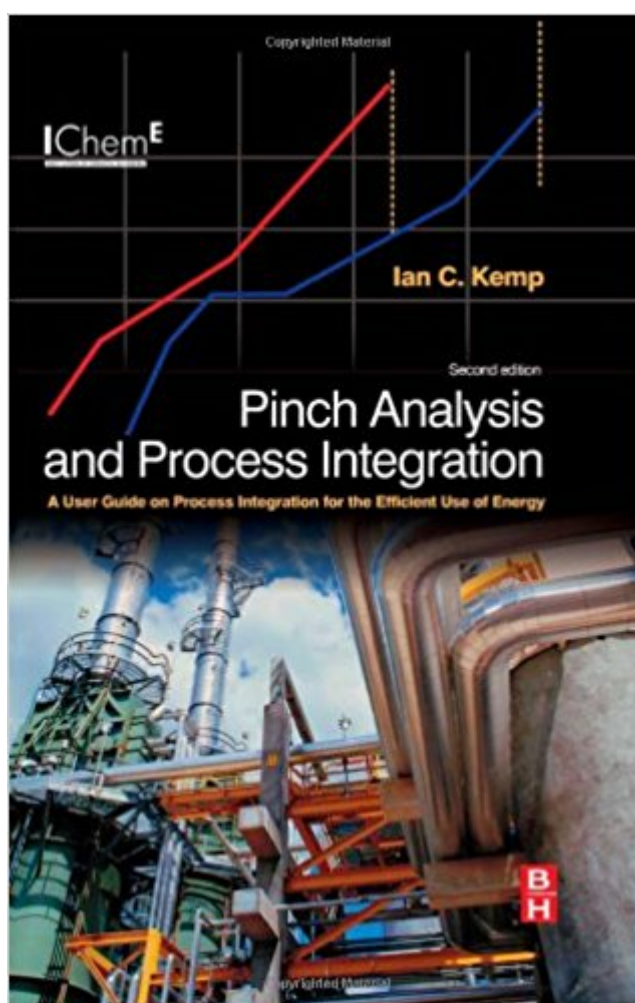


The book was found

Pinch Analysis And Process Integration, Second Edition: A User Guide On Process Integration For The Efficient Use Of Energy



Synopsis

Pinch analysis and related techniques are the key to design of inherently energy-efficient plants. This book shows engineers how to understand and optimize energy use in their processes, whether large or small. Energy savings go straight to the bottom line as increased profit, as well as reducing emissions. This is the key guide to process integration for both experienced and newly qualified engineers, as well as academics and students. It begins with an introduction to the main concepts of pinch analysis, the calculation of energy targets for a given process, the pinch temperature and the golden rules of pinch-based design to meet energy targets. The book shows how to extract the stream data necessary for a pinch analysis and describes the targeting process in depth. Other essential details include the design of heat exchanger networks, hot and cold utility systems, CHP (combined heat and power), refrigeration and optimization of system operating conditions. Many tips and techniques for practical application are covered, supported by several detailed case studies and other examples covering a wide range of industries, including buildings and other non-process situations. The only dedicated pinch analysis and process integration guide, fully revised and expanded supported by free downloadable energy targeting software. The perfect guide and reference for chemical process, food and biochemical engineers, plant engineers and professionals concerned with energy optimisation, including building designers. Covers the practical analysis of both new and existing systems, with full details of industrial applications and case studies.

Book Information

Hardcover: 416 pages

Publisher: Butterworth-Heinemann; 2 edition (April 13, 2007)

Language: English

ISBN-10: 0750682604

ISBN-13: 978-0750682602

Product Dimensions: 6.1 x 0.9 x 9.2 inches

Shipping Weight: 1.7 pounds (View shipping rates and policies)

Average Customer Review: 4.6 out of 5 stars 8 customer reviews

Best Sellers Rank: #132,266 in Books (See Top 100 in Books) #5 in Books > Engineering & Transportation > Engineering > Chemical > Plant Design #26 in Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Industrial Design > Products #82 in Books > Textbooks > Engineering > Chemical Engineering

Customer Reviews

The original guide to understanding and using pinch analysis and process integration for energy optimization, accompanied by analysis software

Great book! Complete review and good examples. An update of the last edition with more robust real applications. The software for pinch analysis is very useful.

This book will guide you through a Pinch or heat exchanger network analysis. It is theoretical enough, but practical enough to make most technical people with some basic thermodynamic understanding successful in their Pinch efforts.

Great book

This update is clearly written and an excellent refresher from first principles of a technique I have used over 20 years. (I have a copy of the first edition and my course notes from one of Bodo Linnhoff's early Pinch courses in Manchester, and this book summarises all this plus newer insights in a user-friendly way). There is a minor typo in one of the early worked examples, where stream numbers are confused - but I can forgive this. The complementary pinch spreadsheet software also works very well for basic energy targeting. No regrets for purchasing.

This book is very useful and practical handbook in energy analysis and improvement, especially for chemical plant. And it can be used for self-teaching. Basic concept of pinch analysis can be understood easily and expand it to apply in your plant. It is good for new and advanced engineers. After your reading, you can get more aids in heat integration. If you can get a short course, it can be completely make you to realize this subject.

The concept of pinch analysis is very well presented for the reader to understand quickly and implement the techniques with ease. I highly recommend this book for all process engineers. The excel spreadsheet for pinch analysis which is available through download is very useful for quick estimate on the pinch temperature. Users need to exercise caution while working in Imperial Units as there are conversion errors.

Good value for the money ! Only one big "dissatisfier" The promised free software/Spreadsheet seems not to be available on the indicated link.

Really a clear and complete approach to pinch analysis and process integration. In my opinion a book each chemical engineer should read to have a thorough grasp in this subject often neglected in the universities.

[Download to continue reading...](#)

Pinch Analysis and Process Integration, Second Edition: A User Guide on Process Integration for the Efficient Use of Energy Windows 10: The Ultimate 2017 Updated User Guide to Microsoft Windows 10 (2017 updated user guide, tips and tricks, user manual, user guide, Windows 10) How to Install Kodi on Firestick: The Ultimate User Guide How to Install Kodi on Fire Stick (the 2017 updated user guide, tips and tricks, home ... (user guides, fire stick,) Echo: Echo Advanced User Guide (2017 Updated) : Step-by-Step Instructions to Enrich your Smart Life (Echo User Manual, Alexa User Guide, Echo Dot, Echo Tap) Echo Dot: Echo Dot User Manual: From Newbie to Expert in One Hour: Echo Dot 2nd Generation User Guide: (Echo, Dot, Echo Dot, ... Manual, Alexa, User Manual, Echo Dot ebook) User's Guide to Preventing & Treating Headaches Naturally: Learn How You Can Use Diet and Supplements to Put an End to Headaches (Basic Health Publications User's Guide) Fire Stick: The Ultimate Fire Stick User Guide - Learn How To Start Using Fire Stick, Plus Little-Known Tips And Tricks! (Streaming ... TV Stick User Guide, How To Use Fire Stick) Musings of an Energy Nerd: Toward an Energy-Efficient Home iPhone 7: Tips and Tricks for your new Apple device. Use it to the fullest (user guide, user manual, hidden features, Steve Jobs) (iPhone 7, iPhone 6, Smartphone, Apple, iOS 10, Samsung) Fire TV: Fire Stick: The Ultimate User Guide to Fire Stick To TV, Movies, Apps, Games & Much More (how to use Fire Stick, streaming, tips ... (User guides, internet, free movie Book 2) Reiki: The Healing Energy of Reiki - Beginner's Guide for Reiki Energy and Spiritual Healing: Reiki: Easy and Simple Energy Healing Techniques Using the ... Energy Healing for Beginners Book 1) Windows 10: The Ultimate 2 in 1 User Guide to Microsoft Windows 10 User Guide to Microsoft Windows 10 for Beginners and Advanced Users (tips and tricks, ... Windows, softwares, guide Book 7) Technical Writing Process: The simple, five-step guide that anyone can use to create technical documents such as user guides, manuals, and procedures Kindle Fire: Owner's Manual: Ultimate Guide to the Kindle Fire, Beginner's User Guide (User Guide, How to, Hints, Tips and Tricks) Heating and Cooling of Buildings: Principles and Practice of Energy Efficient Design, Third Edition (Mechanical and Aerospace Engineering Series) Key West: Tequila, a Pinch of Salt and a Quirky Slice of America...a year in Key West Echo: The 2017 Updated Echo User Guide and Echo Dot User Guide, Master Your Echo and Echo Dot in 1 Hour! (With Step-by-Step Instructions & The 250 Best Echo Easter Eggs included) Windows 10: The Best Guide

How to Operate New Microsoft Windows 10 (tips and tricks, 2017 user manual, user guide, updated and edited, Windows for beginners) Windows 10: The Best Guide How to Operate New Microsoft Windows 10 (tips and tricks, user manual, user guide, updated and edited, Windows for beginners)
Pinch Hit

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)