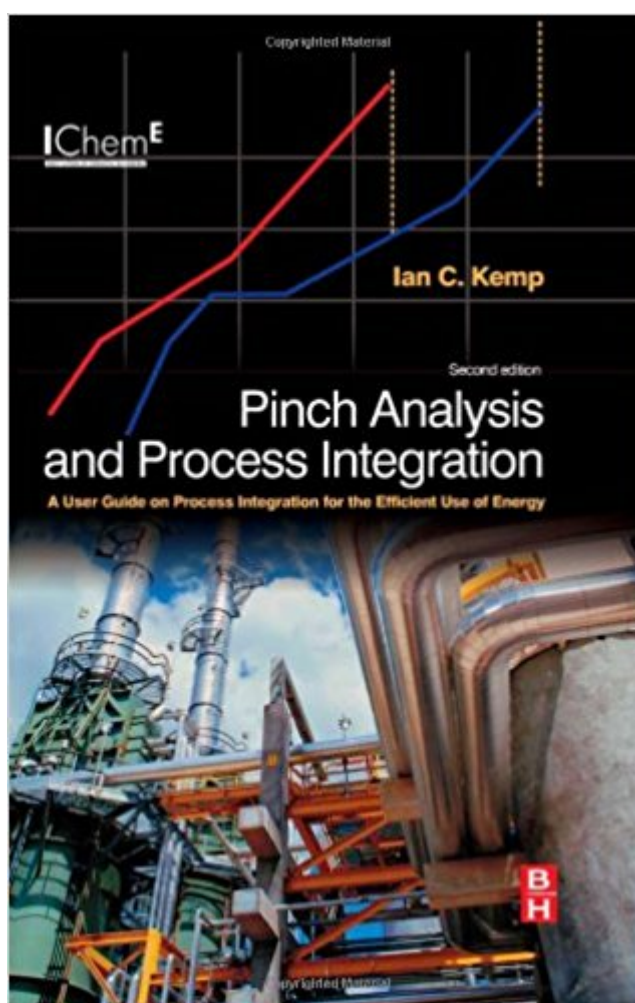


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# Pinch Analysis And Process Integration, Second Edition: A User Guide On Process Integration For The Efficient Use Of Energy



## 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

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## 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.

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