



# Heat Pumps in Chemical Process Industry

By Anton A. Kiss, Carlos A. Infante Ferreira

Download now

Read Online 

**Heat Pumps in Chemical Process Industry** By Anton A. Kiss, Carlos A. Infante Ferreira

As the chemical process industry is among the most energy demanding sectors, chemical engineers are endeavoring to contribute towards sustainable future. Due to the limitation of fossil fuels, the need for energy independence, as well as the environmental problem of the greenhouse gas effect, there is a large increasing interest in the research and development of chemical processes that require less capital investment and reduced operating costs and lead to high eco-efficiency. The use of heat pumps is a hot topic due to many advantages, such as low energy requirements as well as an increasing number of industrial applications. Therefore, in the current book, authors are focusing on use of heat pumps in the chemical industry, providing an overview of heat pump technology as applied in the chemical process industry, covering both theoretical and practical aspects: working principle, applied thermodynamics, theoretical background, numerical examples and case studies, as well as practical applications. The worked-out examples have been included to instruct students, engineers and process designers about how to design various heat pumps used in the industry. Reader friendly resources namely relevant equations, diagrams, figures and references that reflect the current and upcoming heat pump technologies, will be of great help to all readers from the chemical and petrochemical industry, biorefineries and other related areas.

 [Download Heat Pumps in Chemical Process Industry ...pdf](#)

 [Read Online Heat Pumps in Chemical Process Industry ...pdf](#)

# Heat Pumps in Chemical Process Industry

*By Anton A. Kiss, Carlos A. Infante Ferreira*

## **Heat Pumps in Chemical Process Industry** By Anton A. Kiss, Carlos A. Infante Ferreira

As the chemical process industry is among the most energy demanding sectors, chemical engineers are endeavoring to contribute towards sustainable future. Due to the limitation of fossil fuels, the need for energy independence, as well as the environmental problem of the greenhouse gas effect, there is a large increasing interest in the research and development of chemical processes that require less capital investment and reduced operating costs and lead to high eco-efficiency. The use of heat pumps is a hot topic due to many advantages, such as low energy requirements as well as an increasing number of industrial applications. Therefore, in the current book, authors are focusing on use of heat pumps in the chemical industry, providing an overview of heat pump technology as applied in the chemical process industry, covering both theoretical and practical aspects: working principle, applied thermodynamics, theoretical background, numerical examples and case studies, as well as practical applications. The worked-out examples have been included to instruct students, engineers and process designers about how to design various heat pumps used in the industry. Reader friendly resources namely relevant equations, diagrams, figures and references that reflect the current and upcoming heat pump technologies, will be of great help to all readers from the chemical and petrochemical industry, biorefineries and other related areas.

## **Heat Pumps in Chemical Process Industry** By Anton A. Kiss, Carlos A. Infante Ferreira Bibliography

- Published on: 2016-09-01
- Original language: English
- Number of items: 1
- Dimensions: 10.10" h x 1.10" w x 7.20" l, .0 pounds
- Binding: Hardcover
- 442 pages

 [Download Heat Pumps in Chemical Process Industry ...pdf](#)

 [Read Online Heat Pumps in Chemical Process Industry ...pdf](#)

## **Editorial Review**

### **Users Review**

#### **From reader reviews:**

##### **Tiara Garcia:**

With other case, little individuals like to read book Heat Pumps in Chemical Process Industry. You can choose the best book if you want reading a book. Providing we know about how is important a book Heat Pumps in Chemical Process Industry. You can add expertise and of course you can around the world with a book. Absolutely right, because from book you can recognize everything! From your country until foreign or abroad you may be known. About simple point until wonderful thing you are able to know that. In this era, we can easily open a book as well as searching by internet system. It is called e-book. You should use it when you feel uninterested to go to the library. Let's examine.

##### **Patrick Pierce:**

Information is provisions for anyone to get better life, information nowadays can get by anyone with everywhere. The information can be a expertise or any news even a huge concern. What people must be consider whenever those information which is inside former life are difficult to be find than now is taking seriously which one is appropriate to believe or which one the resource are convinced. If you get the unstable resource then you understand it as your main information we will see huge disadvantage for you. All of those possibilities will not happen in you if you take Heat Pumps in Chemical Process Industry as your daily resource information.

##### **Paul Williams:**

This book untitled Heat Pumps in Chemical Process Industry to be one of several books in which best seller in this year, honestly, that is because when you read this book you can get a lot of benefit on it. You will easily to buy this particular book in the book retail outlet or you can order it by using online. The publisher with this book sells the e-book too. It makes you more readily to read this book, since you can read this book in your Mobile phone. So there is no reason to you to past this e-book from your list.

##### **Christopher Palmer:**

The e-book untitled Heat Pumps in Chemical Process Industry is the book that recommended to you to read. You can see the quality of the publication content that will be shown to an individual. The language that publisher use to explained their way of doing something is easily to understand. The author was did a lot of exploration when write the book, so the information that they share to you personally is absolutely accurate. You also can get the e-book of Heat Pumps in Chemical Process Industry from the publisher to make you

considerably more enjoy free time.

**Download and Read Online Heat Pumps in Chemical Process  
Industry By Anton A. Kiss, Carlos A. Infante Ferreira  
#5A8HJ2S3MN9**

## **Read Heat Pumps in Chemical Process Industry By Anton A. Kiss, Carlos A. Infante Ferreira for online ebook**

Heat Pumps in Chemical Process Industry By Anton A. Kiss, Carlos A. Infante Ferreira Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Heat Pumps in Chemical Process Industry By Anton A. Kiss, Carlos A. Infante Ferreira books to read online.

### **Online Heat Pumps in Chemical Process Industry By Anton A. Kiss, Carlos A. Infante Ferreira ebook PDF download**

**Heat Pumps in Chemical Process Industry By Anton A. Kiss, Carlos A. Infante Ferreira Doc**

**Heat Pumps in Chemical Process Industry By Anton A. Kiss, Carlos A. Infante Ferreira Mobipocket**

**Heat Pumps in Chemical Process Industry By Anton A. Kiss, Carlos A. Infante Ferreira EPub**

**5A8HJ2S3MN9: Heat Pumps in Chemical Process Industry By Anton A. Kiss, Carlos A. Infante Ferreira**