

Compressors and Modern Process Applications

By Heinz P. Bloch, Arvind Godse

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Compressors and Modern Process Applications By Heinz P. Bloch, Arvind Godse

A modern reference to the principles, operation, and applications of the most important compressor types

Thoroughly addressing process-related information and a wider variety of the major compressor types of interest to process plants, Compressors and Modern Process Applications uniquely covers the systematic linkage of fluid processing machinery to the processes they serve.

This book is a highly practical resource for professionals responsible for purchasing, servicing, or operating compressors. It describes the main features of over 300 petrochemical and refining schematics and associated process descriptions involving compressors and expanders in modern industry.

The organized presentation of this reference covers first the basics of compressors and what they are, and then progresses to important operational and process issues. It then explains the underlying principles, operating modes, selection issues, and major hardware elements for compressors. Topics include double-acting positive displacement compressors, rotary positive displacement compressors, understanding centrifugal process gas compressors, power transmission and advanced bearing technology, centrifugal compressor performance, gas processing and turbo-expander applications, and compressors typically found in petroleum refining and other petrochemical processes.

Suitable for plant operation personnel, machinery engineering specialists, process engineers,as well as undergraduate students of this subject, this book's special features include:
* Flow schematics of modern process units and processes used in gas transport, gas conditioning, petrochemical manufacture, and petroleum refining
* Listings of licensors for each process on the flow schematics
* Identification of each process flow schematic of compressors, cryogenic, and hot gas expanders at their respective locations
* Important overview of surge control, estimating compressor performance,

applications for air separation and gas processing plants, petroleum refinery issues, and important criteria that govern compressor selection and application

Placing hundreds of associated process flow schematics at the fingertips of professionals and students, author and industry expert Heinz Bloch facilitates comprehension of the workings of various petrochemical, oil refining, and product upgrading processes that are served by compressors.

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Editorial Review

Review
A very useful text with relevant content that will not become outdated for decades.
(From a reader in Texas, 2012)

From the Author
Indispensable as a primer on the subject of process gas compression in modern industry.
The text is highly suitable for all job functions coming in contact with these machines.

From the Inside Flap
The aim of this book is to impart an understanding of critically important compressor parameters. Without getting lost in too much mathematical treatment, this text highlights the various interactions of importance in gas compression. It is profusely illustrated so as to give size, scale, and configurational details of compressors and their principal components.

Users Review

From reader reviews:

Joaquin Hogan:

Reading a e-book tends to be new life style on this era globalization. With reading through you can get a lot of information that may give you benefit in your life. Using book everyone in this world may share their idea. Textbooks can also inspire a lot of people. A great deal of author can inspire their reader with their story as well as their experience. Not only the story that share in the guides. But also they write about advantage about something that you need case in point. How to get the good score toefl, or how to teach your kids, there are many kinds of book that exist now. The authors on earth always try to improve their expertise in writing, they also doing some research before they write for their book. One of them is this Compressors and Modern Process Applications.

Jamey Norton:

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