



Energy and Process Optimization for the Process Industries

By Frank (Xin X.) Zhu

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Exploring methods and techniques to optimize processing energy efficiency in process plants, *Energy and Process Optimization for the Process Industries* provides a holistic approach that considers optimizing process conditions, changing process flowschemes, modifying equipment internals, and upgrading process technology that has already been used in a process plant with success. Field tested by numerous operating plants, the book describes technical solutions to reduce energy consumption leading to significant returns on capital and includes an 8-point Guidelines for Success. The book provides managers, chemical and mechanical engineers, and plant operators with methods and tools for continuous energy and process improvements.

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Editorial Review

From the Back Cover

Demonstrates how integrated energy and process optimization improves plant efficiency and profit

Based on the author's hands-on field experience, this book offers tested and proven theory, methods, and industrial applications to optimize process and use energy as efficiently as possible while meeting all production goals. With its clear and systematic approach, it enables readers to quickly realize significant reductions in energy costs for process plants and to sustain and improve those energy savings well into the future. Moreover, it helps readers choose and implement an approach that addresses the specific process conditions and production needs of their plant.

Energy and Process Optimization for the Process Industries presents concepts, methods, and tools based on the process know-how and technical advances that simultaneously optimize process and energy usage. Following the author's expert guidance, readers will learn to:

- Minimize waste and heat losses
- Establish the best operation practices and implement operational changes
- Improve heat recovery within and across process units
- Implement process changes with advanced technology to enhance product yield and energy efficiency
- Optimize energy supply system design and operations
- Maintain continuous improvement via regular review of key performance matrices

Plenty of case studies are discussed to demonstrate how substantial improvements in energy utilization can be made by applying the methods and tools presented in the book, not only in operating existing plants, retrofitting older plants but also designing new plants.

Energy and Process Optimization for the Process Industries is recommended for managers, engineers, and operators as well as process designers working in the process industries. Regardless of the type of process or the age of the plant, all readers will learn methods from this book in order to find opportunities to optimize process, save money, and conserve natural resources.

About the Author

FRANK (Xin X.) ZHU is a Senior Fellow at UOP LLC, where he has led innovation efforts to optimize industrial process design and operation to achieve higher energy efficiency and lower capital cost. Before joining UOP, Dr. Zhu served as a research professor at the Centre for Process Integration at the University of Manchester in the UK. He is also a former editor-in-chief of CACS *Communications*, the magazine of the Chinese-American Chemical Society.

He is the recipient of the 2014 AIChE Energy and Sustainability Award.

Users Review

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Sara Otoole:

This Energy and Process Optimization for the Process Industries book is not ordinary book, you have it then the world is in your hands. The benefit you have by reading this book will be information inside this guide incredible fresh, you will get details which is getting deeper a person read a lot of information you will get. This Energy and Process Optimization for the Process Industries without we comprehend teach the one who reading through it become critical in pondering and analyzing. Don't be worry Energy and Process Optimization for the Process Industries can bring if you are and not make your handbag space or bookshelves' turn out to be full because you can have it in the lovely laptop even cell phone. This Energy and Process Optimization for the Process Industries having excellent arrangement in word as well as layout, so you will not really feel uninterested in reading.

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