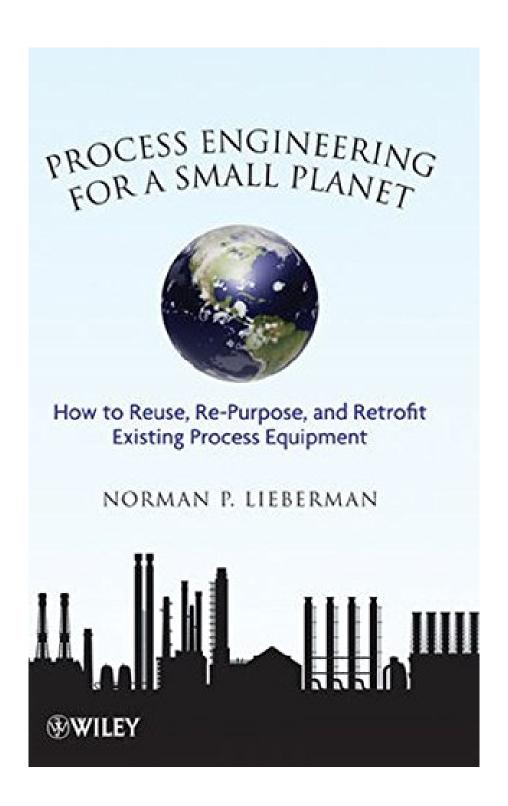


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About the Author

NORMAN P. LIEBERMAN is an independent process design engineer and field troubleshooter. His clients are refineries and petrochemical plants. He is well known in the process industry for his seminar "Troubleshooting Process Operations," which has been presented to over 16,000 engineers and plant operators.

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Most helpful customer reviews

1 of 2 people found the following review helpful.

One of Norm's Best

By wks7270

A fanatastic read. Mr. Lieberman weaves a tapestry of pertinent process engineering problems with an entertaining and insightful narrative common to some of my favorite fiction. Parts of this book could stand on its own for entertainment value. I found myself laughing out loud at parts while reading during a night shift during a turnaround. My operators now think I'm more boring than white bread.

The examples are highly relevant to anyone in refining / CPI. Technical information is presented in Norm's usual easy-to-read style.

If this book accomplishes its goal, you will approach a request for adding new equipment in a different light. A common theme in Norm's books is due dillegence. Leave no stone unturned. If there is data that can be collected, go get it! This book ties those previous themes with a new message of environmental conservation. For the engineer that considers his impact on the world after he's gone, its very empowering.

4 of 4 people found the following review helpful. A technical book that needs a serious facelift 1 By Didaskalex ***1/2

The experienced trouble shooter, failed to show how his book helps our small planet. This particular book, represents a departure from Lieberman's traditional articles in he wrote for HP magazine, with a strong technical editorial stuff to check the article, filtering the clutter. Without resorting to complicated concepts, Troubleshooting Process Plant procedures have to offer engineers new ideas, checking the process scheme for bottlenecks, by utilizing their process/ mechanical skills, needed to solve typical problems in plant/ equipment operation.

Hands on case studies provide examples for problems commonly encountered in process plant operation, utilizing well-established process engineering principles. Hence, guidepost cases have to be easy to follow, grouped in a way that searching similar cases may yield prompt support. Although the case flow sheets are clear, they are not to standards; hatched lines cannot applied to tower internals view, nor for drum fluid level, they indicate a sectional view of a solid bar, solid black is not encountered for anyone who passed ChE Dwg 101. Look at Fig 5-4, a sulfur converter is not schematically present this way.

In spite of the book's traditional technical content, Lieberman used a non traditional way; a chat style that keep interrupting the reader with marginal issues. He selected paragraph headings that added non needed controversy, in a technical procedures book. Few examples are: the divine plan revealed (pp 21), so what has the Pharaoh to do with author's client, whom he kept mocking? The wages of sin, another making little sense to engineers! I was shocked by the personal memories on pages 68 & 69. No engineer, let alone a consultant, should ever make public such information, or client names, while reducing them to trash?

Most consulting engineers, with proven experience, as Norman Lieberman compare their own process solutions with others, supported by economic indicators, as payout time, to convince the client technical staff. By showing that their findings are the root cause, that the proposal solves the encountered problem technically, and is economically feasible. As process expert, Mr. Lieberman's posted tips in Hydrocarbon processing, since early 70's, but process skills are not just acquired or improved by reading books, or attending workshops, many of which are offered for fellow engineers and operators, but by practical participation, as the guiding key.

A concise introduction for readers new to the subject:

Chemical & Petroleum refining processes utilize many complex stationary equipment, rotating machinery: pumps and compressors. Plant equipment is interconnected by piping, with valves, mechanical and thermal units, heat exchangers, waste and side product processing units, with control devices and safety mechanisms. Bringing such a complicated unit online and ensuring its optimum operation requires substantial skills at monitoring and evaluating their operation, detecting ubnormalities and and solving everyday problems.

Monitors log basic data and operating comments on equipment/ plant performance. When a major/ recurring problem haunts operators, they call operations support. Hence, we delve into the fascinating world of trouble shooting conducted normally by a process engineer for the chemical, Hydrocarbon, and utilities plants. Troubleshooting of Process Plants has to conduct an orderly diagnosis of process/equipment problems, referring to recent operating data, and implement an optimum solution in a proposed scheme, for approval by client technical staff.

For guidelines on standard technical writing, please examine these two books:

Chemical and Process Plant Commissioning Handbook: A Practical Guide to Plant System and Equipment Installation and Commissioning

Sustainable Design Through Process Integration: Fundamentals and Applications to Industrial Pollution Prevention, Resource Conservation, and Profitability Enhancement

2 of 2 people found the following review helpful. jarring amalgam of personal anecdotes and engineering examples By W Boudville

Lieberman is well qualified to write a text on chemical engineering, which is what the 'process engineering' of the title is generally referred to by people in the field. Or if you like, you can extend this to petroleum engineering. Anyhow, the book is an unorthodox amalgam of engineering instructions and personal observations. I really hesitate to call this a text book in engineering. While this might sound like a stick in the mud approach, it really is jarring to contrast this to any standard engineering or science text. The engineering design and process examples seem solid enough. I don't question their accuracy at all.

But the problem is the extremely informal and chatty style by which the author liberally intersperses this with his experiences with others in this field. Ok, you can get some sense of how a practicing engineer deals with the workplace. However the mixing of this with hard engineering guidelines just feels incongruous and uncomfortable. It would seem to go better if he had written a biographical narrative and then inserted engineering case studies. Where the personal narrative dominates. You can read biographies like that in an extensive university library.

I tend to concur with another reviewer who remarked that the author's comments on a couple of pages perhaps should have been omitted from a professional document.

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