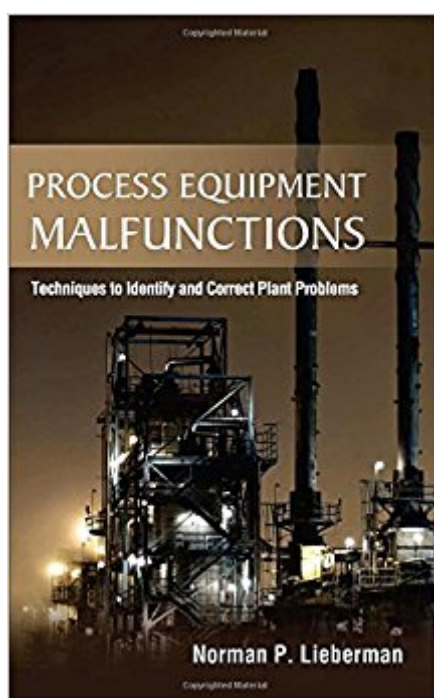


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# Process Equipment Malfunctions: Techniques To Identify And Correct Plant Problems (Mechanical Engineering)



## Synopsis

### A PRACTICAL GUIDE TO TROUBLESHOOTING PROCESS EQUIPMENT MALFUNCTIONS

Process Equipment Malfunctions offers proven techniques for finding and fixing process plant problems and contains details on failure identification. Diagnostic tips, examples, and illustrations help to pinpoint and correct faults in chemical process and petroleum refining equipment. Complex math has been omitted. An essential resource for plant operators and process engineers, this book is based on the author's long career in field troubleshooting process problems. **COVERAGE INCLUDES:** Distillation tray malfunctions Packed tower problems Distillation tower pressure and composition control Fractionator product stripping Pumparounds Reboiled and steam side strippers Inspecting tower internals Process reboilers--thermosyphon circulation Heat exchangers Condenser limitations Air coolers Cooling water systems Steam condensate collection systems Steam quality problems Level control problems Process plant corrosion and fouling Vapor-liquid separation vessels Hydrocarbon-water separation and desalters Fired heaters--draft and excess O<sub>2</sub> Disabling safety systems Vacuum systems and steam jets Vacuum surface condensers Centrifugal pump limitations Steam turbine drivers Centrifugal compressors Reciprocating compressors

## Book Information

Series: Mechanical Engineering

Hardcover: 560 pages

Publisher: McGraw-Hill Education; 1 edition (August 2, 2011)

Language: English

ISBN-10: 0071770208

ISBN-13: 978-0071770200

Product Dimensions: 6.4 x 1.5 x 9.3 inches

Shipping Weight: 2.2 pounds (View shipping rates and policies)

Average Customer Review: 4.3 out of 5 stars 8 customer reviews

Best Sellers Rank: #826,841 in Books (See Top 100 in Books) #34 in Books > Engineering & Transportation > Engineering > Chemical > Plant Design #105 in Books > Business & Money > Processes & Infrastructure > Facility Management #200 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Fossil Fuels > Petroleum

## Customer Reviews

Norman P. Lieberman is a chemical engineer with 46 years of experience in process plant operation, design, and field troubleshooting. An independent consultant, he troubleshoots oil

refinery and chemical plant process problems and prepares revamp process designs. Mr. Lieberman teaches 20-25 seminars a year on "Troubleshooting Process Plant Operations" and this book is based on his long experience in field troubleshooting refinery and process plant problems.

It's fine.

This is the 3rd or 4th Lieberman book I purchased and probably the best. Though there is significant overlap with other books of his, the additional material and the way it is presented make purchasing the book certainly worth it. Either a student, an experienced operator a design office or manufacturing site engineer, there is something in the book for all...

I have almost every book Lieberman has written and I love his fairly simple explanations, and his occasionally funny commentary to go along with his explanation. It helps break up what would otherwise be very dry reading.

This is a great book for practicing process engineers, especially young engineers just beginning their careers. It contains a large number of different topics with real world examples and in-the-field, practical application shortcuts.

change impeller? try frequency inverter should have more schemes non systematic approach for problem solving but. a good book for general learning

thank you

fast and in time, Really nice sharp product. great . for a host , this price is valuable.

This book is organized almost exactly as Lieberman's seminars. Same sketches, same explanations, and with even more material. Very informative as usual. Also, I recommend to read it after "A Working Guide to Process Equipment" because of its higher level.

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