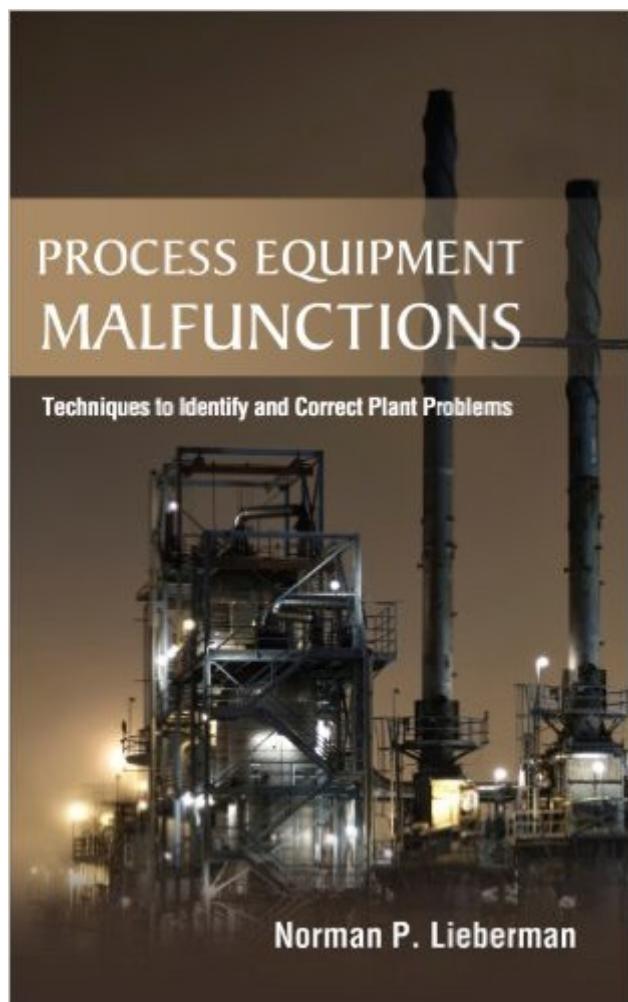


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# Process Equipment Malfunctions: Techniques To Identify And Correct Plant Problems



## 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

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## Customer Reviews

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.

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...

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