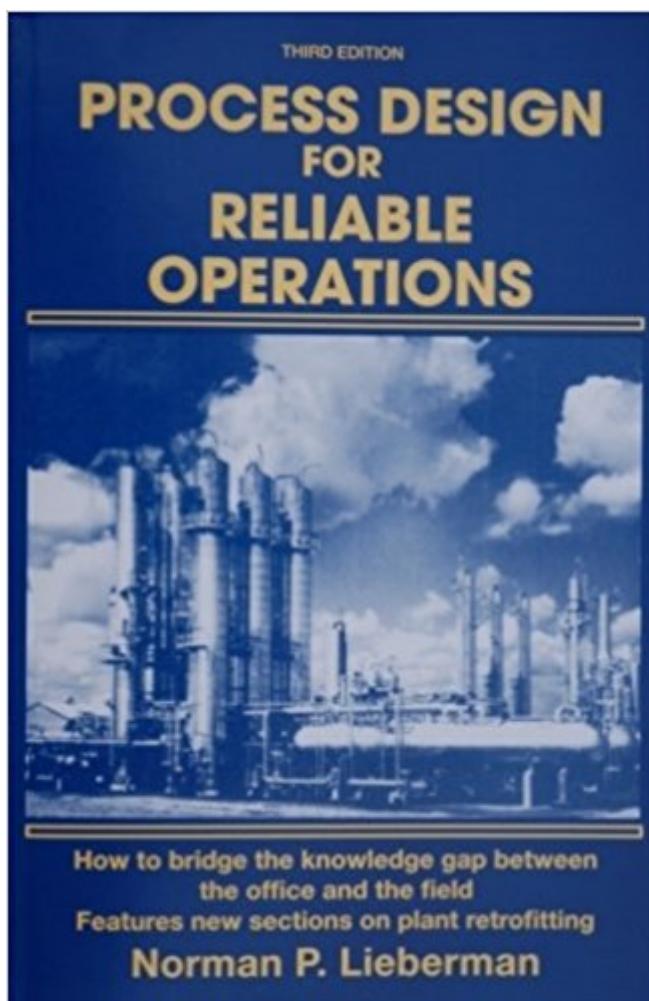


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# Process Design For Reliable Operations



## Synopsis

Process Design for Reliable Operations, 3rd edition, is a practical text that details design methods to improve the operating integrity of petroleum refineries and petrochemical plants. Subjects covered include continuous process equipment for vapor-liquid processing. Equipment covered includes:- Packed Distillation Towers, Trayed Distillation Towers, Distillation Tower Internals, Shell & Tube Heat Exchangers-Pitfalls of Over-design, Vacuum Systems & Surface Condensers, Reboilers & Condensers, Centrifugal Pumps & Compressors-Effect of Viscosity, Level Control & Indication, Process Plant Safety, Sizing Knock-Out Drums, Hydrocarbon-Water separators, How start-up conditions influence Plant Design. The author Norman P. Lieberman, has 44 years of experience in design, operation and troubleshooting process equipment in refineries and petrochemical plants. Lieberman observes that having to operate equipment that he has designed is the best method to learn process design techniques. The new third edition has added new material based on Mr. Lieberman's latest 10 years of field troubleshooting process design experience. Specific new areas include boiler level control using the Molliere Diagram, improving tray mechanical integrity and process control concepts.

## Book Information

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## Customer Reviews

Just a repeat of information from his other books.

I have read Norm Lieberman's "Process Design for Reliable Operations" many times over the past 6 years or so since I was given a copy for my birthday and every time I have read it there has been a great deal of knowledge that I have gleaned. It has helped me troubleshoot distillation column

problems (both at the design phase and during operation). Being that I am a chemist, it has been really valuable to have the knowledge of what various pieces of equipment are supposed to do and how to relay their failures to the engineers or redesign them myself (in most cases). I really appreciate Norm's style; I can imagine being in the shoes of the people that he has helped through the years! If you are starting your chemical engineering profession or are a chemist working in a plant, GET THIS BOOK and read it until you understand it.

One of the best books I read. The book deals with troubleshooting of Process Operation but is written like a novel, so the reader follows the author during the book with no effort, but the subject is analyzed in a deep way. You could read the book in the bed! Fantastic!

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