Chemical engineers and plant operators can rely on the Third Edition of A Working Guide to Process Equipment for the latest diagnostic tips, practical examples, and detailed illustrations for pinpointing trouble and correcting problems in chemical process equipment. This updated classic contains new chapters on Control Valves, Cooling Towers, Waste Heat Boilers, Catalytic Effects, Fundamental Concepts of Process Equipment, and Process Safety. Filled with worked-out calculations, the book examines everything from trays, reboilers, instruments, air coolers, and steam turbines…to fired heaters, refrigeration systems, centrifugal pumps, separators, and compressors. The authors simplify complex issues and explain the technical issues needed to solve all kinds of equipment problems. Comprehensive and clear, the Third Edition of A Working Guide to Process Equipment features:

- Guidance on diagnosing and troubleshooting process equipment problems
- Explanations of how theory applies to real-world equipment operations
- Many useful tips, examples, illustrations, and worked-out calculations

Inside this Renowned Guide to Solving Process Equipment Problems

- Trays
- Tower Pressure
- Distillation Towers
- Reboilers
- Instruments
- Packed Towers
- Steam and Condensate Systems
- Bubble Point and Dew Point
- Steam Strippers
- Draw-Off Nozzle Hydraulics
- Pumperounds and Tower Heat Flows
- Condensers and Tower Pressure Control
- Air Coolers
- Deaerators and Steam Systems
- Vacuum Systems
- Steam Turbines
- Surface Condensers
- Shell-and-Tube Heat Exchangers
- Fire Heaters
- Refrigeration Systems
- Centrifugal Pumps
- Separators
- Compressors
- Safety
- Corrosion
- Fluid Flow
- Computer Modeling and Control
- Field Troubleshooting Process Problems
I was referred to this book after reading a few chapters of his "Troubleshooting Process Operations" book, and it is excellent. He writes it for people working in the industry, for people who might work in the industry, and people who just want to know how things work.

His sense of humor is on par with mine, as well as many of my fellow chemical engineers... so if you've spent any time working or dealing with engineers at all, his way of thinking and sense of humor will be well received.

Anyways, his examples are pretty much all personal experience, and he does a good job of giving you the "basic" math governing many processes. His intent is not to give design equations, and he is VERY careful to make sure the reader is aware that they are NOT to be used to design equipment.

He speaks, in my opinion, from a contractors point of view and is at times very critical of operating companies, management, other engineers, and SOME operators (he also rightfully gives MUCH praise to experienced veteran operators), so, if you work for an operating company, you might be a TAD offended, but, you'll live.

Buy the book, well worth it.

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