A Working Guide to Process Equipment by Elizabeth T. Lieberman

Third Edition

Chemical engineers and technicians often cant identify the source of equipment malfunctions because they dont understand how the equipment works. This easy-to-read guide offers explanations of the inner workings of equipment in petroleum refineries, chemical and pharmaceutical plants, fertilizer plants, and other continuous process facilities. Tips, worked out calculations, and simple process figures expedite troubleshooting of problems in heaters, turbines, vacuum systems, instrumentation, refrigeration systems, compressors, and much more.

My Personal Review:
I was refered 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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