



Process Design for Reliable Operations

Norman P Lieberman

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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.

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Design Operations is not Design Project Management. When I first start these conversations with design leaders I have noticed that many think I'm taking about project management (PjM)for design. At Hewlett Packard Enterprise our UX team had a PjM on the team. You need to have consistency so that you have clear communication in the roles and responsibilities that cross-functional team members have reliable expectations about how to work and who to work with. But the system for procuring non-HP hardware was not designed for. In fact, one could say it was purposefully designed to be a dark pattern. As this role matures, the head of design would isolate this role and begin the process of converting them into a full-time role.