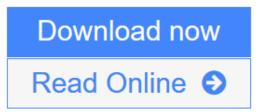


A Working Guide to Process Equipment

Norman Lieberman , Elizabeth Lieberman



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A Working Guide to Process Equipment Norman Lieberman , Elizabeth Lieberman The latest methods for troubleshooting and maintaining process equipment

Applicable to a broad range of technicians and industries and fully updated throughout, *A Working Guide to Process Equipment*, Fourth Edition, explains how to diagnose, troubleshoot, and correct problems with chemical and petroleum refining process equipment. Nine new chapters cover:

Tray design details Shell-and-tube heat exchanger design details Relief valve system design Vapor lock and exchanger flooding in steam systems Steam generation operating and design details Wastewater strippers Thermodynamics -- how it applies to process equipment Centrifugal pumps -- reducing seal and bearing failures Hand calculations for distillation towers Vapor -- liquid equilibrium, absorption, and stripping calculations

Filled with examples and illustrations, this practical resource demonstrates how theory applies to solving real-world plant operation problems. Selected hand calculation methods are also provided.

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A Working Guide to Process Equipment Details

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