



Heat Exchanger Equipment Field Manual: Common Operating Problems and Practical Solutions

By Maurice Stewart, Oran T. Lewis

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From upstream to downstream, heat exchangers are utilized in every stage of the petroleum value stream. An integral piece of equipment, heat exchangers are among the most confusing and problematic pieces of equipment in petroleum processing operations. This is especially true for engineers just entering the field or seasoned engineers that must keep up with the latest methods for in-shop and in-service inspection, repair, alteration and re-rating of equipment. The objective of this book is to provide engineers with sufficient information to make better logical choices in designing and operating the system. *Heat Exchanger Equipment Field Manual* provides an indispensable means for the determination of possible failures and for the recognition of the optimization potential of the respective heat exchanger.

- Step-by-step procedure on how to design, perform in-shop and in-field inspections and repairs, perform alterations and re-rate equipment
- Select the correct heat transfer equipment for a particular application
- Apply heat transfer principles to design, select and specify heat transfer equipment
- Evaluate the performance of heat transfer equipment and recommend solutions to problems
- Control schemes for typical heat transfer equipment application

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Editorial Review

Review

"Focusing on the various types of heat transfer equipment used in the upstream and downstream oil and gas value chain, Stewart and Lewis present advice on maintenance and optimization and diagnosing and repairing operational problems. They cover heat transfer theory; heat exchanger configurations; inspecting, maintaining, and repairing tubular heat exchangers; and repairing, altering, and re-rating. Though the book is indeed small enough to carry in the field, the information could also be useful in the shop. Gulf Professional is an imprint of Elsevier."--Reference and Research News, October 2012

About the Author

Dr. Maurice Stewart, PE, a Registered Professional Engineer with over 40 years international consulting experience in project management; designing, selecting, specifying, installing, operating, optimizing, retrofitting and troubleshooting oil, water and gas handling, conditioning and processing facilities; designing plant piping and pipeline systems, heat exchangers, pressure vessels, process equipment, and pumping and compression systems; and leading hazards analysis reviews and risk assessments.

Oran T. Lewis, is an Adjunct Instructor with over 30 years experience in the erection, maintenance, inspection, fabrication, modification and repair of pressure and piping equipment, as well as presenting education courses for piping inspection, weld and pressure equipment inspection. His certifications are, in order of obtainment, National Board of Boiler and Pressure Vessel Inspector Authorized Inspector, AWS Certified Welding Inspector, API 510 Certified Pressure Vessel Inspector, API 570 Certified Piping Inspector, NACE Level 1 Corrosion.

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Daniel McCullough:

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