



Closed Feedwater Heaters for Power Generation: A Working Guide (Mechanical Engineering)

By Stanley Yokell, Michael Catapano, Eric Svensson

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Best practices for using closed feedwater heaters in power generation plants

Based on the authors' decades of industry experience, this book explains how to improve cycle efficiency and reduce the cost of fuel used to produce electricity using closed feedwater heaters. This practical guide describes the steam cycle and contains detailed information on how manufacturers build feedwater heaters.

Closed Feedwater Heaters for Power Generation illustrates how to control the liquid level of the condensed extraction steam and offers recommendations for what to include in procurement specifications. Expert advice for evaluating manufacturers' technical proposals for new and replacement feedwater heaters is provided. This comprehensive resource also discusses inspection, maintenance, and repair of closed feedwater heaters as well as failures and their causes.

Complete coverage includes:

- The steam cycle
- Channel design and construction
- Tubing
- Tubesheets
- Tube-to-tubesheet joints
- Bundle construction
- Shell construction
- Assembly of bundles and shells
- Examining and testing feedwater heaters
- Quality assurance and quality control
- Level control
- Preparing procurement specifications
- Evaluating bidder's proposals
- Drawing reviews
- Inspection, maintenance, and repair
- Feedwater heater autopsies

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Editorial Review

About the Author

Stanley Yokell, a Fellow of the ASME, is a registered Professional Engineer in Colorado, with retired registrations in Iowa, Illinois, and New Jersey. He consults for fossil and nuclear power plants on closed feedwater heaters and auxiliary power plant heat exchangers. Mr. Yokell was previously vice president and president of Process Engineering and Machine Company (PEMCO) and vice president of Ecolaire, Inc.

Michael C. Catapano has had more than 40 years' experience in the operation, design, procurement, and maintenance of feedwater heaters, condensers, and other shell-and-tube heat exchangers, including seven years with PSE&G and 33 years as president of Powerfect, Inc. He is past chairman of the ASME Power Division Heat Exchanger Committee and served for many years as their technical program coordinator. Mr. Catapano is a Fellow of the ASME.

Eric Svensson has 10 years' experience as the vice president of engineering at Powerfect, Inc. Since joining Powerfect, he has been involved in the writing the specification and conducting quality control checks for more than 25 replacement feedwater heaters. Mr. Svensson is currently a member of the ASME Heat Exchanger Committee.

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