



# Centrifugal Compressors: A Basic Guide

By Meherwan P. Boyce

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## Centrifugal Compressors: A Basic Guide By Meherwan P. Boyce

Boyce provides an up-to-date reference covering all major aspects of design, operation, and maintenance. He includes technical details on sizing, plant layout, fuel selection, types of drives, and performance characteristics of all major components in a co-generation or combined-cycle power plant. Contents: Section 1: Design, theory, and practice An history and overview of centrifugal compressors Aerothermodynamics of compressors Two dimensional design of compressor stages Three dimensional flow in a centrifugal compressor Diffuser design Surge and surge control Off design performance characteristics Mechanical equipment standards An overview of steam turbines An overview of motor drives Appendices (General properties of air; general properties of gases; Equivalent units) Index Summary.

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### Editorial Review

#### About the Author

Dr. Meherwan P. Boyce, a registered professional engineer, is president of Boyce Engineering International, Inc., a major Houston-based consulting and engineering firm. His experience incorporates academic and professional positions throughout the turbo-machinery industry and at Texas A&M University.

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