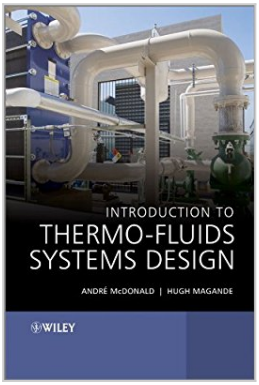


# Introduction to Thermo-Fluids Systems Design

*By André Garcia McDonald, Hugh Magande*



**Introduction to Thermo-Fluids Systems Design** By André Garcia McDonald, Hugh Magande

***A fully comprehensive guide to thermal systems design covering fluid dynamics, thermodynamics, heat transfer and thermodynamic power cycles***

Bridging the gap between the fundamental concepts of fluid mechanics, heat transfer and thermodynamics, and the practical design of thermo-fluids components and systems, this textbook focuses on the design of internal fluid flow systems, coiled heat exchangers and performance analysis of power plant systems. The topics are arranged so that each builds upon the previous chapter to convey to the reader that topics are not stand-alone items during the design process, and that they all must come together to produce a successful design.

Because the complete design or modification of modern equipment and systems requires knowledge of current industry practices, the authors highlight the use of manufacturer's catalogs to select equipment, and practical examples are included throughout to give readers an exhaustive illustration of the fundamental aspects of the design process.

**Key Features:**

- Demonstrates how industrial equipment and systems are designed, covering the underlying theory and practical application of thermo-fluid system design
- Practical rules-of-thumb are included in the text as 'Practical Notes' to underline their importance in current practice and provide additional information
- Includes an instructor's manual hosted on the book's companion website

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**Introduction to Thermo-Fluids Systems Design By André Garcia McDonald, Hugh Magande Bibliography**

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## Editorial Review

Review

"Useful for undergraduate mechanical engineering design curricula. Summing Up: Recommended. Upper-division undergraduates, faculty, and professionals/practitioners." (*Choice,* 1 June 2013)

From the Back Cover

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