



The Coen & Hamworthy Combustion Handbook: Fundamentals for Power, Marine & Industrial Applications (Industrial Combustion)

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The rigorous treatment of combustion can be so complex that the kinetic variables, fluid turbulence factors, luminosity, and other factors cannot be defined well enough to find realistic solutions. Simplifying the processes, **The Coen & Hamworthy Combustion Handbook** provides practical guidance to help you make informed choices about fuels, burners, and associated combustion equipment—and to clearly understand the impacts of the many variables. Editors Stephen B. Londerville and Charles E. Baukal, Jr, top combustion experts from John Zink Hamworthy Combustion and the Coen Company, supply a thorough, state-of-the-art overview of boiler burners that covers Coen, Hamworthy, and Todd brand boiler burners.

A Refresher in Fundamentals and State-of-the-Art Solutions for Combustion System Problems

Roughly divided into two parts, the book first reviews combustion engineering fundamentals. It then uses a building-block approach to present specific computations and applications in industrial and utility combustion systems, including those for

- Transport and introduction of fuel and air to a system
- Safe monitoring of the combustion system
- Control of flows and operational parameters
- Design of a burner/combustion chamber to achieve performance levels for emissions and heat transfer
- Avoidance of excessive noise and vibration and the extension of equipment life under adverse conditions

Coverage includes units, fluids, chemistry, and heat transfer, as well as atomization, computational fluid dynamics (CFD), noise, auxiliary support equipment, and the combustion of gaseous, liquid, and solid fuels. Significant attention is also given to the formation, reduction, and prediction of emissions from combustion systems. Each chapter builds from the simple to the more complex and contains a wealth of practical examples and full-color photographs and illustrations.

Practical Computations and Applications for Industrial and Utility Combustion Systems

A ready reference and refresher, this unique handbook is designed for anyone involved in combustion

equipment selection, sizing, and emissions control. It will help you make calculations and decisions on design features, fuel choices, emissions, controls, burner selection, and burner/furnace combinations with more confidence.

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