



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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Editorial Review

Review

"I consider that the main strength of this book is the elaboration of both ... the theoretical and practical, to make it of great interest and relevance to practicing engineers. The language is simple and the arrangement of chapters is good, moving from theory to practice progressively. Besides various types of burners, all the associated equipment like fans, furnaces, controls, and safeties are all covered, making the topic complete. ... Designers, operators, consulting engineers and also students of heat power should find this book extremely useful."

?Kumar Rayaprolu, author of *Boilers: A Practical Reference* and *Boilers for Power and Process*

About the Author

Stephen B. Londerville is currently chief engineer at Coen Company, San Mateo City, California. He has previously served as chief technical officer since 1978 at Coen, vice president R&D, director R&D, and chief engineer. During the past 35 years, he has been involved with all aspects of product development at Coen Company. He holds seven patents and has authored 16 publications. He is a member of ASME, ACHIE, the Combustion Institute, Tau Beta Pi, and the Institute for Liquid Atomization and Spray Systems (ILASS) and was past officer in the board of directors at ILASS. He was recognized as Engineer of the Year by ASME, Santa Clara Valley Section.

Charles E. Baukal, Jr., Ph.D., PE, is the director of the John Zink Institute for the John Zink Company, LLC (Tulsa, Oklahoma), where he has been since 1998. He has more than 30 years of experience in the fields of industrial combustion, pollution control, and heat transfer and has authored more than 150 publications in those areas. Dr. Baukal serves as an adjunct instructor at Oral Roberts University, the University of Oklahoma, the University of Tulsa, and the University of Utah. He is also a member of the American Society of Mechanical Engineers, the American Society for Engineering Education (ASEE), and the Combustion Institute.

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