



# The John Zink Combustion Handbook (Industrial Combustion)

By Charles E. Baukal Jr., Charles E.

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Despite the length of time it has been around, its importance, and vast amounts of research, combustion is still far from being completely understood. Industrial applications of combustion add environmental, cost, and fuel consumption issues to its fundamental complexity, and the process and power generation industries in particular present their own unique challenges

**The John Zink Combustion Handbook** is dedicated to improving that understanding and meeting those challenges. Under the leadership of Charles E. Baukal, Jr., top combustion engineers and technologists from the world-renowned John Zink Company have joined forces to bring you this landmark work— a synthesis of the multi-disciplinary background that will broaden your understanding, hone your skills, and further advance the art and science of industrial combustion.

**Background**—The fundamentals of thermodynamics, chemical kinetics, fluid mechanics, and transport processes of combustion

**Equipment**—Design, maintenance, and troubleshooting

**Applications**—Duct burners, boiler burners, flares, thermal oxidizers

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## **Editorial Review**

### **Review**

This compilation of collaboratively authored chapters gathers the dispersed literature on combustion and related areas. It focuses on chemical, petroleum, and power generation industries. By offering chapters on fundamentals (turbulent flow, heat transfer, chemical kinetics, and more) and equipment design/application (coverage including burners, heaters, flares, and thermal oxidizers), this work make the important link between theory and application in industry. Timely topics covered include computational fluid dynamics, pollution emission, and design of experiments. ...a great value for the in-depth coverage of this sometimes overlooked subject. Recommended.

- CHOICE

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