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Basics of Combustion, Fuels and Air Pollutants

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This Handbook provides a basic reference source on the Art and Science of Industrial Heating with gaseous and liquid fuels. First printed in 1952 it has been updated continuously to reflect advances in the technology behind combustion equipment and controls and is now in its third edition. More than 100,000 printed copies have been distributed worldwide. The purpose of the handbook is to provide users of combustion equipment with the following: A basic explanation of the theory of combustion; Outlines for combustion, heat transfer, and fluid calculations; Charts and data to simplify and speed these calculations; A discussion of combustion equipment, its application, selection and operation. Although the stated scope of the handbook is Industrial Heating with gaseous and liquid fuels, the reader will find that the book also contains considerable information applicable to commercial heating and to solid fuels.

Despite the length of time it has been around, its importance, and vast amounts of research, combustion is still far from being completely understood. Issues regarding the environment, cost, and fuel consumption add further complexity, particularly in the process and power generation industries. Dedicated to advancing the art and science of industrial combustion, The John Zink Hamworthy Combustion Handbook, Second Edition: Volume 3 – Applications offers comprehensive, up-to-date coverage of equipment used in the process and power generation industries. Under the leadership of Charles E. Baukal, Jr., top engineers and technologists from John Zink Hamworthy Combustion examine industry applications such as process burners, boiler burners, process flares, thermal oxidizers, and vapor control. This volume builds on the concepts covered in the first two volumes and shows how they are used in combustion applications. The book also features a wealth of color illustrations, photographs, and tables throughout. What's New in This Edition Expanded to three volumes, with Volume 3 focusing on important industry applications Extensive updates and revisions throughout, reflecting new standards, energy sources, processes, and conservation concerns Expanded coverage of flares and new coverage of biogas flares and flare gas recovery Information on vapor combustors Discussion of pollution control equipment Expanded coverage of commercial and utility boiler burners Chapters on process and air heaters More material on thermal oxidizers A new chapter on marine and offshore applications The third of three volumes in the new, expanded edition of the bestselling handbook, this volume helps you broaden your knowledge of industrial combustion applications to better meet the challenges of this field. For the other volumes in the set, see The John Zink Hamworthy Combustion Handbook, Second Edition: Three-Volume Set.

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.