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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 quidance 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 ir 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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the first book to present a full color visual panorama of combustion images along with explanatory and tutorial overviews

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this directory provides in depth information on a range of suppliers and services including named contacts within the industry the comprehensive nature of its coverage ensures high usage by operating companies and their branches throughout the world plus offshore specifiers and contractors it is aimed for use by key decision makers in all sectors of the industry including technical engineers production managers and buyers senior directors and managing directors

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