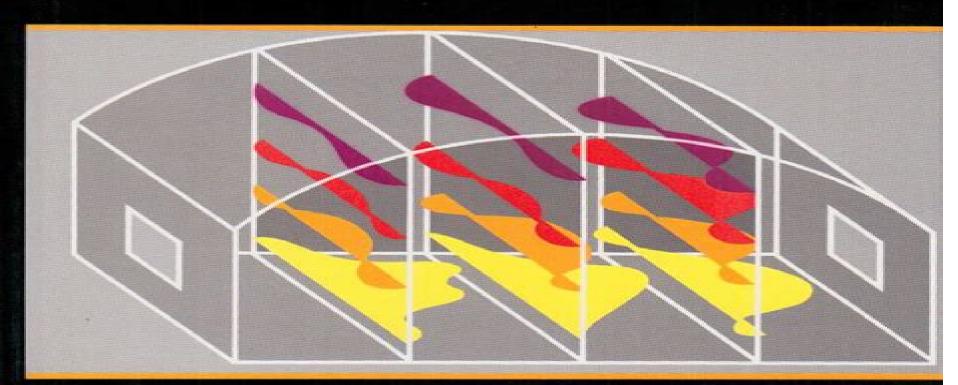
MODELLING OF GAS-FIRED FURNACES AND BOILERS

AND OTHER INDUSTRIAL HEATING PROCESSES

J. M. RHINE

R. J. TUCKER



British Gas

P.A. Pilavachi

Modelling of Gas-fired Furnaces and Boilers and Other Industrial Heating Processes Jeffrey Michael Rhine, Robert James Tucker, 1991 Provides information on the physical and mathematical techniques used in the thermal design and development of gas fired heating plants found in manufacturing and process industries and in commerce The techniques described include boilers and glass ceramics **Computational Fluid Dynamics in Industrial Combustion** Charles E. Baukal, Jr., Vladimir Gershtein, Xianming Jimmy Li, 2000-10-26 Although many books have been written on computational fluid dynamics CFD and many written on combustion most contain very limited coverage of the combination of CFD and industrial combustion Furthermore most of these books are written at an advanced academic level emphasize theory over practice and provide little help to engineers who need to use CFD for combustion modeling Computational Fluid Dynamics in Industrial Combustion fills this gap in the literature Focusing on topics of interest to the practicing engineer it codifies the many relevant books papers and reports written on this combined subject into a single coherent reference It looks at each topic from a somewhat narrow perspective to see how that topic affects modeling in industrial combustion The editor and his team of expert authors address these topics within three main sections Modeling Techniques The basics of CFD modeling in combustion Industrial Applications Specific applications of CFD in the steel aluminum glass gas turbine and petrochemical industries Advanced Techniques Subjects rarely addressed in other texts including design optimization simulation and visualization Rapid increases in computing power and significant advances in commercial CFD codes have led to a tremendous increase in the application of CFD to industrial combustion Thorough and clearly representing the techniques and issues confronted in industry Computational Fluid Dynamics in Industrial Combustion will help bring you quickly up to date on current methods and gain the ability to set up and solve the various types of problems you will Industrial Combustion Pollution and Control Jr., Charles E. Baukal, 2003-10-15 This reference overflows with encounter an abundance of experimental techniques simulation strategies and practical applications useful in the control of pollutants generated by combustion processes in the metals minerals chemical petrochemical waste incineration paper glass and foods industries The book assists engineers as they attempt to meet e Heat Transfer in Industrial Combustion Charles E. Baukal Jr., 2000-05-26 Industry relies heavily on the combustion process The already high demand for energy primarily from combustion is expected to continue to rapidly increase Yet the information is scattered and incomplete with very little attention paid to the overall combustion system Designed for practicing engineers Heat Transfer in Industrial Combustion e

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