



INDUSTRIAL BURNERS

H A N D B O O K

EDITED BY
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 CRC PRESS

Industrial Burners Handbook

Joachim G. Wünnig, Ambrogio Milani



Industrial Burners Handbook :

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Burner Technologies for Industrial Furnaces Joachim G. Wüning, Ambrogio Milani, 2012-02-29 The demands made on the energy efficiency and pollutant emissions of industrial furnaces are rising continuously and have high priority in view of the latest increases in energy prices and of the discussion of climate change for which CO₂ emissions are at least partly responsible Great importance is now attached to increasing energy efficiency in a large range of industrial sectors including the steel industry and companies operating heat treatment installations This work is intended to provide support for those persons responsible for the clean and efficient heating of industrial furnaces The initial chapters of the Handbook of Burner Technology for Industrial Furnaces deal with the indispensable theoretical principles of combustion theory fluid mechanics and heat transfer Only those aspects which are of importance for burner technology are examined The succeeding chapters then proceed on to burner technology as such and focus on combustion system concepts analyze pollutant generation and reduction and discuss the recovery of heat for use in combustion air preheating the most important provision for the enhancement of energy efficiency The Industrial Burners chapter outlines with detailed examples the essential types of industrial burners and their integration into the extremely diverse range of modern furnace system concepts his is then followed by chapters on standardization and legal requirements more specialized and detailed literature relevant research institutions and an annex containing the relevant physical data The book discusses the present day state of technological development in a practically orientated manner The reader is provided with a detailed view of all relevant principles terms and processes in industrial combustion technology and thus with important aids for his or her daily work This compact format book with its plethora of information is an indispensable reference source for all persons who are professionally involved in any way at all with the heating and combustion systems of industrial furnaces Handbook of Burner Technology for Industrial Furnaces Joachim G. Wüning, Ambrogio Milani, 2009 The demands made on the energy efficiency and pollutant emissions of industrial furnaces are rising continuously and have high priority in view of the latest increases in energy prices and of the discussion of climate change for which CO₂ emissions are at least partly responsible Great importance is now attached to increasing energy efficiency in a large range of industrial sectors including the steel industry and companies operating heat treatment installations This work is intended to provide support for those persons responsible for the clean and efficient heating of industrial furnaces The initial chapters of the Handbook of Burner Technology for Industrial Furnaces deal with the indispensable theoretical principles of combustion theory fluid mechanics and heat transfer Only those aspects which are of importance for burner technology are examined The succeeding chapters then proceed on to burner technology as such and focus on combustion system concepts analyze pollutant generation and reduction and discuss the recovery of heat for use in combustion air preheating the most important provision for the enhancement of energy efficiency The Industrial Burners chapter outlines with detailed examples the essential types of industrial burners and their integration into the extremely diverse range of modern furnace system concepts This is then followed by chapters on

standardization and legal requirements more specialized and detailed literature relevant research institutions and an annex containing the relevant physical data The book discusses the present day state of technological development in a practically orientated manner The reader is provided with a detailed view of all relevant principles terms and processes in industrial combustion technology and thus with important aids for his or her daily work This compact format book with its plethora of information is an indispensable reference source for all persons who are professionally involved in any way at all with the heating and combustion systems of industrial furnaces

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