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other chemical elements. Many trace elements  
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Furnaces and Refractories A furnace is an equipment used to melt metals for casting or to heat materials to change their shape e. Since flue gases from the fuel come in direct contact with the materials, the type of fuel chosen is important. For example, some materials will not tolerate sulphur in the fuel.

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arc furnaces use electricity to melt steel and cast iron. Melting furnaces for nonferrous materials use fuel oil. Oil-fired furnaces mostly use furnace oil, especially for reheating and heat treatment of materials.

## FURNACES AND REFRACTORIES - Modern Eq

Monofrax supplies three types of high zirconia refractories - Z, ZHR and ZUHR. All three products consist of two primary phases - monoclinic zirconia and a glassy grain boundary phase. The ZHR and ZUHR chemistries have been engineered to achieve higher

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Written in a student-friendly manner, the book begins with the introduction to fuels, furnaces and refractories. It further exposes the reader to the different types of fuels with their testing methods. Besides covering the recent developments in the field of non-recovery coke ovens, dry coke cooling, use of coal in DRI and blast furnace, and new energy

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recovery system, the book also covers all the aspects of refractory systems. For better understanding of the text, the book includes a large number of illustrations. The book also facilitates a thorough understanding of different environmental issues associated with the use of fuel. Finally, the reader is made familiar with the Indian industrial scenario regarding fuels, furnaces and refractories.

Fuels, Furnaces and Refractories focuses on the sources and efficient use of energy available to modern industry. This book

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begins with the classification, properties, tests, and different kinds of fuels, as well as trends in fuel utilization. This text also tackles the generation and distribution of electricity from both chemical and nuclear energy sources. Subsequent chapters focus on the thermodynamics, physics, chemistry, and kinetics of combustion of fuels; the burner design; the heat transfer and flow of gases through furnaces and flues; and ways of controlling energy supply rates and temperatures. The refractory materials, which are heat-resisting substances, are also described.

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Furnaces sit at the core of all branches of manufacture and industry, so it is vital that these are designed and operated safely and efficiently. This reference provides all of the furnace theory needed to ensure that this can be executed successfully on an industrial scale. Industrial and Process Furnaces: Principles, 2nd Edition provides comprehensive coverage of all aspects of furnace operation and design, including topics essential for process engineers and operators to better understand furnaces. This includes: the combustion process and its

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control, furnace fuels, efficiency, burner design and selection, aerodynamics, heat release profiles, furnace atmosphere, safety and emissions. These elements and more are brought together to illustrate how to achieve optimum design and operation, with real-world case studies to showcase their application. Up-to-date and comprehensive reference encompassing not only best practice of operation but the essential elements of furnace theory and design, essential to anyone working with furnaces, ovens and combustion-based systems. More case studies, more worked examples. New material in this

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integral part of the undergraduate degree courses in chemical, mechanical, metallurgical, and aeronautical engineering. While emphasizing the fundamental principles, the book provides a balanced treatment of energy resources, processing of fuels, fundamentals of combustion, and combustion appliances. The book takes a different approach by dealing with the topics in an Indian context. The third edition of the book has a completely new introduction, layout, and design, and new statistics have been added to provide up-to-date information.

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Are Clearly Discussed. Application Of The Physical, And Chemical Engineering Concepts To The Design Of Pollution Control Equipment Is Emphasized. Due Importance Is Given To Modelling, Quality Monitoring And Control Of Specific Major Pollutants. A Separate Chapter On The Management Of Hazardous Wastes Is Added. Information Pertaining To Indian Conditions Is Given Wherever Possible To Help The Reader Gain An Insight Into India Sown Pollution Problems. This Book Is Mainly Intended As A Textbook For An Integrated One-Semester Course For Senior Level Undergraduate Or First Year Post-Graduate

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operations are explained. In the choice of material for this work, the author made good use of the synergy of scientific principles and industrial practices, offering the much needed and hitherto unavailable combination of detailed treatises on both compiled in one book.

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