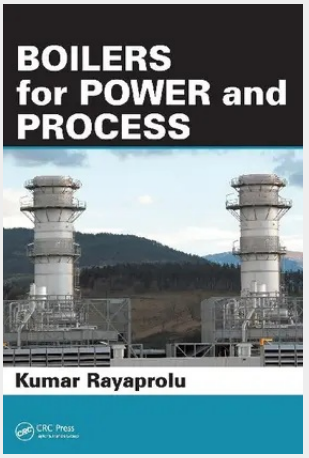
Rayaprolu

Boilers for Power and Process



Boiler professionals require a strong command of both the theoretical and practical facets of water tube-boiler technology. From state-of-the-art boiler construction to mechanics of firing techniques, Boilers for Power and Process augments seasoned engineers' already-solid grasp of boiler fundamentals. A practical explanation of theory, it delivers a balanced analysis of the conceptual and functional aspects of boiler design and evolution. Project managers, consultants, and graduate students will also benefit from this handy desk book, which: - Describes boiler theory - Elaborates on the parts and sub-assemblies of the boiler and its essential auxiliaries - Explains firing systems, including FBC and HRSG Insights from a Professional with Decades of Experience Take advantage of the author's rare techno-commercial perspective and decades of hands-on international experience with industrial and utility boiler systems. Boilers for Power and Process builds on fundamentals – heat transfer, fluid flow, combustion, and fuels – using hundreds of illustrations and tables, a glossary of key terms, and appendices outlining essential calculations required for common processes. Ruthless Optimization Leads to Evolution Examining the latest breakthroughs in boiler technology, this reference details the evolution and what the author calls "ruthless" optimization of firing systems and boilers in the last 150 years. It explains why only the most fuel-flexible, dynamically responsive, best-constructed boilers are used today. This company-neutral text discusses competing designs and why different systems are particularly useful and cost-effective for certain business sectors and global regions. Succinct and easy to navigate, this text illustrates the practical business value and applications of different boilers, distilling the essential information, creating a must-have reference for an intimate understanding of boiler technology.

Written by an experienced boiler professional, this text is an invaluable reference for practicing engineers. After providing the necessary theoretical framework of topics involved in boiler technology, the book describes the practical aspects of industrial and utility boilers, including contemporary boiler construction and various firing technologies. Broad in scope, this work assists power consultants looking to purchase boiler plants, while providing operating engineers with a thorough grounding in the mechanics of various boilers. It also provides designers with information on construction features and design improvements.

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Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)