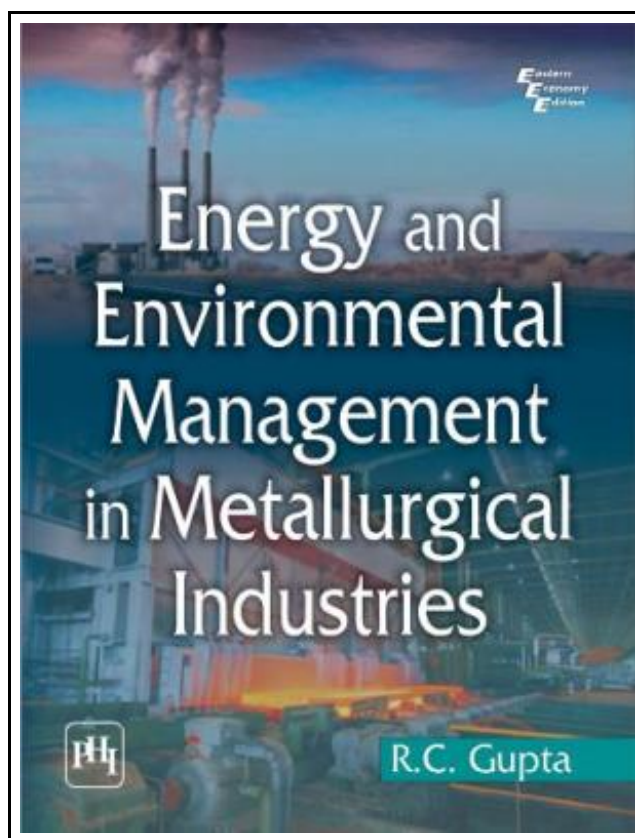


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ENERGY AND ENVIRONMENTAL MANAGEMENT IN METALLURGICAL INDUSTRIES



PHI Learning, 2012. Softcover. Book Condition: New. First edition. This comprehensive book deals with the environmental aspects of metallurgical industries, including ferrous (iron and steel, DRI units, EAF units, ferroalloys and foundries) and non-ferrous (aluminium, copper, lead and zinc) plants. The text, comprising of eight chapters, discusses fundamental aspects of environment management, various energy sources available on the earth and environment awareness required for sustained economic growth. The book provides a thorough understanding of pollution sources in metallurgical industries and their abatement techniques. It also provides details of energy management in metal industry and enumerates factors for metallurgical plant location and layout. Furthermore, it presents health and safety guidelines for metallurgical professionals. The text concludes with discussion on basic legislations related to environment and labour. This book is primarily designed for undergraduate students of metallurgical engineering. Besides, it will also be useful as a ready reference source to professionals associated with metallurgical industries. **KEY FEATURES** Coverage of various types of environmental issues such as air emission, toxic effluents, solid waste, thermal discharge, noise and radiation. Analysis of renewable and non-renewable energy sources on the earth with current energy usage pattern and future consumption pattern. Description of various activities in the metallurgical units along with discussion of sources of pollution and abatement techniques. Guidelines for the plant location and layout. Basic information about labour health and safety, environmental legislations, labour laws, ISO 14000, carbon credit, etc. Contents: Preface ? Acknowledgements Chapter 1 Fundamentals of Environmental Management Chapter 2 Energy and Its Sources Chapter 3 Environmental Awareness Chapter 4 Metallurgical Industries and Environment Chapter 5 Energy Management in Metallurgical Industries Chapter 6 Environmental Aspects of Plant Location and Layout Chapter 7 Occupational Health and Safety Chapter 8 Environmental Legislations and Related Issues Appendices A: List of Some Common Tree and Shrub Species...



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