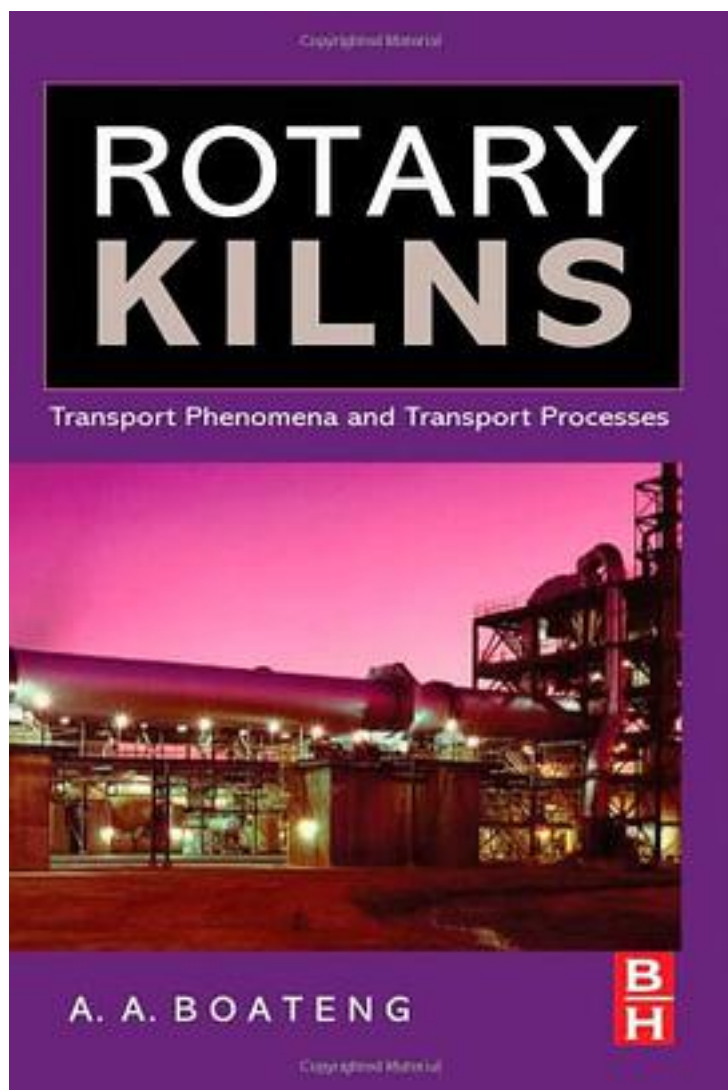


# Rotary Kilns



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Rotary Kilns-rotating industrial drying ovens-are used for a wide variety of applications including processing raw minerals and feedstocks as well as heat-treating hazardous wastes. They are particularly critical in the manufacture of Portland cement. Their design and operation is critical to their efficient usage, which if done incorrectly can result in improperly treated materials and excessive, high fuel costs. This professional reference book will be the first comprehensive book in many years that treats all engineering aspects of rotary kilns, including a thorough grounding in the thermal and fluid principles involved in their operation, as well as how to properly design an engineering process that uses rotary kilns.

Chapter 1: The Rotary Kiln Evolution & Phenomenon

Chapter 2: Basic Description of Rotary Kiln Operation

Chapter 3: Freeboard Aerodynamic Phenomena

Chapter 4: Granular Flows in Rotary Kilns

Chapter 5: Mixing & Segregation

Chapter 6: Combustion and Flame

Chapter 7: Freeboard Heat Transfer

Chapter 8: Heat Transfer Processes in the Rotary Kiln Bed

Chapter 9: Mass & Energy Balance

Chapter 10: Rotary Kiln Minerals Process Applications

• Covers fluid flow, granular flow, mixing and segregation, and aerodynamics during turbulent mixing and recirculation

• Offers hard-to-find guidance on fuels used for rotary kilns, including fuel options such as natural gas versus coal-fired rotary kilns

• Explains principles of combustion and flame control, heat transfer and heating and material balances

作者介绍:

目录:

[Rotary Kilns 下载链接1](#)

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