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4.7 Application of the Flow ModelChapter 5 Mixing and Segregation; 5.1 Modeling of Particle Mixing and Segregation in Rotary Kilns; 5.2 Bed Segregation Model; 5.3 The Governing Equations for Segregation; 5.4 Boundary Conditions; 5.5 Solution of the Segregation Equation; 5.5.1 Strongly Segregating System (Case I); 5.5.2 Radial Mixing (Case II); 5.5.3 Mixing and Segregation (Case III); 5.6 Numerical Solution of the Governing Equations; 5.7 Validation of the Segregation Model; 5.8 Application of Segregation Model; Chapter 6 Combustion and Flame; 6.1 Combustion; 6.2 Mole and Mass Fractions  
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6.18 Gas-Phase Conservation Equations Used in CFD Modeling

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## Sommario/riassunto

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 therm

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