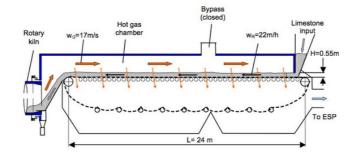


Simulation of Heating and Cooling of granular Materials o Grates

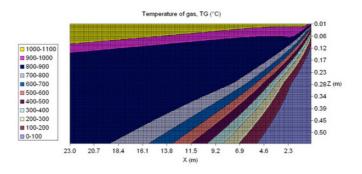
The heating and cooling of bulk materials on grates is simulated in two dimensionsit is considered that the temperatu dependency of physical properties of the pressure loss coefficient in the bed is not the same, and thus changes the flow along t path .

As examples, the heating of limestone and dolomite (the part deacidification is calculated) and the cooling of cement clinker sho be called.

These factors are examined : stainless length, grate speed, bed height, particle size distributions of the flow , etc.



construction Lepol grate



Temperature field in the limestone on the Lepol grate

Dr.-Ing. Chuan Cheng: "Thermal Process Simulation of reactive particles on moving grates" (pdf) (ltv_media/Downloads/Forschung/Cheng-p-480.pdf) - Promotionskolloquium am 22.05.2007.

Dynamic Simulation of Heat Treatment Processes

- Rotary Kilns
- Shaft Kilns

Tunnel Kilns

- ▶ Roller Kilns
- Combustion Processes
 Measurement of thermophysical Material Properties
 Intensive Cooling
 Drying Processes