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particle histories, such as temperature, velocity, residence time, and impact position during spray drying; modeling of ovens to provide information about temperature and airflow pattern throughout the baking chamber to enhance heat transfer and in turn final product quality; designing hybrid heating ovens, such ...

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worldwide over the last few decades, with cross contamination from contaminated equipment being the most predominant source.

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the sake of CPU time and memory requirement reduction, assuming that simulations are performed on the median section and that end effects can f14 Computational Fluid Dynamics in Food Processing be negligible.

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In recent years, computational fluid dynamics (CFD) has been increasingly applied to food processing operations. In spray-drying operations, CFD simulation tools are now often used because measurements of air flow, temperature, particle size and humidity within the drying chamber are very difficult and expensive to obtain in large-scale dryer.

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processes. It is only in recent years that cfd has been applied in the food processing industry.

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schemes. ... such as dredging and certain types of food flow. In these cases, the interaction between the particles and the flow should be modelled in order to provide accurate ...

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CFD, as a tool of research for enhancing

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the design process and understanding of the basic physical nature of fluid dynamics can provide benefits to the food processing industry in many areas, such as drying, sterilization, mixing, refrigeration and other application areas.

CFD Applications in Food Processing

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Kaushal and Sharma, I n a ...

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