

**TURBULENT FLOW COMPUTATION (FLUID MECHANICS
AND ITS APPLICATIONS)**

Kay Tango

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Computational fluid dynamics - Wikipedia

In various branches of fluid mechanics, our understanding is inhibited by the presence of turbulence. Fluid Mechanics and Its Applications The development of reliable methods for turbulent flow computation will have a significant impact.

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Theoretical and experimental results were analyzed and compared. Experimental distributions of particle size and velocities of particle fractions, random spraying angle, heat losses to the environment.

However, it is only in recent years that CFD has been applied in the food process.

Meanwhile, more attention should be paid on the assumptions such as spatial homogeneity [12] because of such assumptions could lead to inaccuracy in prediction. During mixing, a common method of enhancing the process is to use some kind of stirrer or paddle. CFD code was used for the purpose to simulate the transient temperature, velocity profiles, and shape of the slowest heating zone in sterilization of carrot soup in pouches [30].

This is a very intensive process and usually it requires the computer to solve applications involve the substances of gas, liquid and solid. CFD helps in modelling of crystallization process and design of crystallizer.