

RESEARCH PAPERS

冷冻干燥过程的数学模型及影响因素的研究

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**摘要** Based on the experiments on freeze-drying carrot and potato slabs, the effects of some parameters, such as heating temperature and pressure on the freeze-drying process are examined. A simple model of freeze-drying is established to predict drying time and the mass variations of materials during the drying. The experimental results agree well with those calculated by the model.

**关键词** [freeze-drying](#) [model](#) [heat and mass transfer](#)

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**Mathematical Model for Freeze-Drying**

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**Key words** [freeze-drying](#); [model](#); [heat and mass transfer](#)

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