

عنوان مقاله:

Simulation Of An In-store Dryer For Paddy Rice And Its Comparison With A Fluidized Bed Dryer

محل انتشار:

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خلاصه مقاله:

Moisture movement and variation of the temperature in grains bed and drying air is simulated for paddy in an in-store dryer by considering shrinkage into account. The differential equations of change were solved with implicit numerical method. Drying time of paddy rice for an in-store dryer and a fluidized bed dryer is compared with the respective experimental data. Paddy type was named "Neda" with 25% initial moisture content (dry basis). Drying continued until the moisture content of paddy reduced to 12-14% (dry basis). It was found that drying time in fluidized bed dryer was $1/3 - 1/2$ that of in-store dryer.

کلمات کلیدی:

Paddy-rice dryer, in-store, Fluidized bed

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