On the effect of moisture content on drying rate in porous media

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Abstract
In this study, drying process is modeled in porous media using random walk theory. In this line, first the effect of microscopic quantities derived from random walk theory has been studied on drying rate. Then, the relationship between drying rate and moisture content is obtained taking convection into account. The results obtained in this study indicates the effect of convection on the process of drying in porous media.

Keywords: porous media, random walk, fractional calculus, drying rate

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