Incorporation of Dynamic Capillary Pressure into the Green–Ampt Model for Infiltration

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On page 645, a symbol in the following passage was presented incorrectly.

The contact angle $\theta$ in Eq. [9] is assumed to be a function of the capillary number $Ca$, $\theta = \theta(Ca)$ where $Ca = \eta i / \gamma$. Note that one could have also used the Darcy velocity $q$ to define $Ca$. Microscopic observations, however, suggest that the contact angle depends on the velocity of the air–water interface, $i$, and not on $q$.

The $i$ should be $\dot{i}$. Hence:

The contact angle $\theta$ in Eq. [9] is assumed to be a function of the capillary number $Ca$, $\theta = \theta(Ca)$ where $Ca = \eta \dot{i} / \gamma$. Note that one could have also used the Darcy velocity $q$ to define $Ca$. Microscopic observations, however, suggest that the contact angle depends on the velocity of the air–water interface, $\dot{i}$, and not on $q$. 