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In this paper, a computational framework based on the material point method (MPM) is developed to study the coupled seepage-erosion-deformation process within unsaturated soils. Based on the mixture theory, the unsaturated erodible soil is conceptualized as a three-phase multi-species porous medium, which is represented as a set of Lagrangian material points in a three-phase multi-species single point

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MPM framework.

A generalized interpolation material  
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Only in few studies have phreatic  
seepage and flows in the unsaturated  
zone to non-rectangular (trapezoidal  
and curvilinear) draining entities been  
analytically examined (PK-77 reported  
solutions by Bazanov, p. 150 of her  
book, and Vedernikov, pp.181-182,  
see also Ilyinsky and Kacimov, 1992a,  
Kacimov, 2005, 2006a, Kacimov and  
Obnosov, 2002).

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