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Discrete element modelling of granular materials incorporating realistic particle shapes

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Abstract

This paper proposes an approach to generate realistic particle shapes considering the major plane of orientation of particles in discrete element modelling (DEM). The particle generation framework includes capturing high-quality scanning electron microscope (SEM) images, followed by image processing and generation of clumps using a commonly used multi-sphere (MS) approach in particle flow code (PFC3D). A set of experimental direct shear tests (DST) and subsequent DEM simulations were performed by incorporating realistic particle shapes. The simulation results show a good agreement with those obtained in the laboratory. In addition, the normal stress showed a significant effect on the structural anisotropy of the granular materials.

Keywords: Discrete element method, Direct shear test, Subnetworks, Clumped particles

Introduction

Morphological features of granular materials have attracted many researchers in the field (e.g., [1, 2]); [3, 4]. It was evident from the experimental investigations that the mechanical behaviour of granular materials including compressibility, shear strength, dilation, and crushability, was highly influenced by the morphological features (e.g., [5–9]). However, performing laboratory tests is time-consuming and may not be feasible to relate the morphological features of realistic particles.

For continuum-based numerical methods such as finite-element or finite difference methods, the physics occurring at the grain scale is difficult to capture because of its discrete nature and may not be possible to explore microscale insights. On the other hand, the discrete element method (DEM) pioneered by Cundall and Strack [10] has progressed rapidly over the decades and is now capable to capture microscale response of granular materials (i.e., fabric orientations, force chain networks and associated displacement vectors) considering realistic particle shapes. Using DEM, several researchers have considered different traditional element tests, such as triaxial (e.g., [1, 4, 11–14]) and direct shear tests (DST) (e.g., [15–19]) to explore the microscopic responses of granular materials. In general, to incorporate the particle shape effect into DEM, one can adopt either of the two approaches that are commonly used. The earlier one is to introduce a rheology-type rolling resistance contact law between the particles, while the latter one is

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