



Calibration and Validation of Granular Continuum Models from Particle Data: Bridging the Micro-Macro Gap

Stefan Luding, Anthony Thornton

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Calibration and Validation of Granular Continuum Models from Particle Data: Bridging the Micro-Macro Gap reviews recent advances in the field and describes how to obtain continuum fields from particle level data. After a review of several methods, it focuses on one method, coarse-graining, and demonstrates the power of this method via various examples of granular continuum models, e.g., for shallow and segregating flows.

- Presents the coarse-graining method to overcome accurate result challenges by applying a local smoothing kernel with a well-defined smoothing length that automatically generates fields satisfying the continuum equations
- Presents a very flexible solution that can be extended to complex situations, such as two-phase flows and situations with complex external boundaries
- Shows readers how to apply such methods to calibrate and validate some of the most common granular flow models

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