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Multiscale problems and analysis of soil mechanics

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Highlights:

- The multi-scale origin of soil is elaborated.
- A new energy criterion for the division of particle scales is proposed.
- A multiscale soil cell element model is established.
- Fractional-step coupling method of variable areas is proposed.
- Particle size effect theory is proposed by particles as the basic analytical unit.
- Nested model theory is proposed base on the mesoscale soil cell element model.

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