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A multiscale modeling technique for bridging molecular dynamics with finite element method

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## Highlights

- A weighted averaging momentum method is introduced for bridging molecular dynamics (MD) with finite element (FE) method.
- The proposed method shows excellent coupling results in 1-D and 2-D examples.
- The proposed method successfully reduces the spurious wave reflection at the border of MD and FE regions.
- Big advantages of the proposed method are simplicity and inexpensive computational cost of multiscale analysis.

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