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Simplified Bead-Chain Model for Direct Fiber Simulation in Viscous Flow

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Highlights

- A simplified bead-chain model for direct fiber simulation is newly proposed.
- Motions of both rigid and flexible fibers in a simple shear flow are simulated.
- Behaviors of fiber suspensions are also simulated.
- The present model well reproduces the results of the conventional bead-chain model.
- The model provides higher computational efficiency than the conventional one.

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