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Simulation of the Spherical Orientation Probability Distribution of Paper Fibers in an Entire Suspension Using Immersed Boundary Methods

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**Highlights**

- Transient modeling of the fiber suspension orientation density using the Fokker-Planck equation
- Computation of the two dimensional orientation density of paper fiber suspensions in the entire fluid domain
- Simulations possible for arbitrary geometries using immersed boundary methods
- Validation of the method using head-box geometry

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