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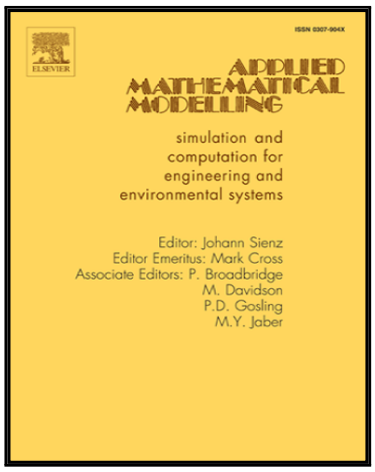

Particle diffusion in non-equilibrium bedload transport simulations

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Highlights

- Versatile framework for deterministic/stochastic simulations of bedload transport
- Consistency between equilibrium, non-equilibrium and ensemble-averaged frameworks
- Sediment diffusion has to be embodied in non-equilibrium bedload transport equations
- Adaptation length depends on the particle diffusivity and the Péclet number
- Improvement of the predictive capability of non-equilibrium bedload equations

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