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Comparison between the Mori-Tanaka and generalized self-consistent methods in the framework of anti-plane strain inclusion problem in strain gradient elasticity

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Highlights

- Anti-plane strain inclusion problem in the framework of strain gradient elasticity is considered
- Effective longitudinal shear modulus of fiber-reinforced composite is evaluated analytically based on Mori-Tanaka method and generalized self-consistent method and numerically using FEM
- It is shown that energy based averaging schemes are preferable in the frame of gradient elasticity

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