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Research on fractal model of normal contact stiffness for mechanical joint considering asperity interaction

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Highlights:

- A fractal model of normal contact stiffness considering the effect of asperity interaction is proposed.
- The effect of asperity interaction on normal contact stiffness is discussed.
- The fractal smoothness is proposed to characterize the roughness of contact surface.
- The relation between normal contact stiffness and surface roughness is studied.

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