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Oscillation of Ultrathin Cu Nanobridges: Classical Molecular Dynamics Simulations

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We have investigated several ultra-thin copper nanobridges between supporting layers using a classical molecular dynamics simulation and a many-body potential function of the second-moment approximation of tight-binding scheme. This investigation has shown a part of the thermal properties of nanobridges, the tension in the nanobridges, and the resonance of the nanobridges. When the nanobridge has a well-defined structure, the resonant frequency is defined and the phenomenon of resonance is in common with classical oscillation systems.