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## Numerical Calculation of Elastohydrodynamic Lubrication ...

Three-layer grids with progressive densification is selected, in which numerical calculation firstly starts

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from mesh level :128 128, and then progressively switched to mesh level :256 256, and finally to mesh level :512 512, so that a sufficiently small mesh spacing to ensure the accuracy of numerical simulation.

## Numerical simulation of transient mixed elastohydrodynamic ...

2.1. Elastohydrodynamic lubrication model. In the whole calculation domain, including whether EHL region or asperity contact region, the pressure is governed by steady-state Reynolds equation. Its general form in point contact problems can be expressed as (1)

$$\left( \frac{\partial}{\partial x} \left( \frac{h^3}{12} \frac{\partial p}{\partial x} \right) + \frac{\partial}{\partial y} \left( \frac{h^3}{12} \frac{\partial p}{\partial y} \right) \right) = x$$



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Numerical simulation of mixed lubrication considering

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