

## Numerical Calculation Of Elastohydrodynamic Lubrication Methods And Programs

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Aug 30, 2020 numerical calculation of elastohydrodynamic lubrication methods and programs Posted By David BaldacciMedia Publishing TEXT ID

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## Numerical Calculation of Elastohydrodynamic Lubrication ...

Three-layer grids with progressive densification is selected, in which numerical calculation firstly starts from mesh level  $128 \times 128$ , and then progressively switched to mesh level  $256 \times 256$ , and finally to mesh level  $512 \times 512$ , 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 
$$\frac{\partial}{\partial x} \left( \frac{h^3}{12} \frac{\partial p}{\partial x} \right) + \frac{\partial}{\partial y} \left( \frac{h^3}{12} \frac{\partial p}{\partial y} \right) = U \frac{\partial h}{\partial x} - v \frac{\partial h}{\partial y}$$

## Numerical simulation of mixed lubrication considering ...

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