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progressive
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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

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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

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governed by steady-

state Reynolds

equation. Its general

form in point contact

problems can be

expressed as (1) $\frac{\partial}{\partial x} \left(\frac{h^3}{12 \eta U} \frac{\partial p}{\partial x} \right) + \frac{\partial}{\partial y} \left(\frac{h^3}{12 \eta U} \frac{\partial p}{\partial y} \right) = U \frac{\partial h}{\partial x}$

Numerical simulation

of mixed lubrication

considering ...

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