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droplets" phenomenon. A jet of liquid is unstable because of surface tension and usually breaks into small droplets. The addition of minute quantities of polymeric molecules

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provides an
additive elastic
stress which
stabilizes the
liquid column.

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7 Notation

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units Aarea 2 m

Ddiameter m

Fforce N g

gravitational

acceleration

m/s² h head or

height m Llength

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m mass kg

P pressure Pa

or N/m^2

pressure

difference Pa or

N/m^2 Q volume

flow rate m^3/s

r radius m t time

s V velocity m/s

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Fluid: 2. Static

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Static Fluids:

3. Mass

Conservation in

Flowing Media :

L5: Mass

Conservation in

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4. Inviscid Flow

: L6: Steady

Bernoulli

Equation: L7: Un

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fluid element,

vorticity &

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mechanics, in
which the
kinematics and

mechanical
behavior of
materials are
modeled as a
continuous mass
rather than as
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particles. The
relation of
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and continuous

mechanics has

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mechanics, the

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domain does not

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fluid varies
with time and
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