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In this book fluid

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mechanics and
thermodynamics (F&T) are
approached as interwoven,
not disjoint fields. The
book starts by analyzing
the creeping motion around
spheres at rest: Stokes

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flows, the Oseen
correction and the
Lagerstrom-Kaplun
expansion theories are
presented, as is the
homotopy analysis. 3D
creeping flows and rapid

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granular avalanches are
treated in the context of
the shallow flow
approximation, and it is
demonstrated that
uniqueness and stability
deliver a natural

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transition to turbulence
modeling at the zero,
first order closure level.
The difference-quotient
turbulence model (DQTM)
closure scheme reveals the
importance of the

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turbulent closure schemes'
non-locality effects.
Thermodynamics is
presented in the form of
the first and second laws,
and irreversibility is
expressed in terms of an

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entropy balance. Explicit
expressions for
constitutive postulates
are in conformity with the
dissipation inequality.
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application of combined

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F&T. The book is rounded out by a chapter on dimensional analysis, similitude, and physical experiments.

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