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numerical fluid dynamics accessible by emphasizing concepts along with the
underlying theory rather than presenting a collection of recipes and by
building on the classical methods to develop the numerical methods on the
leading edge of research this book which is essentially self contained is
intended numerical methods in fluid mechanics fluid motion is governed by the
navier stokes equations a set of coupled and nonlinear partial differential
equations derived from the basic laws of conservation of mass momentum and
energy the unknowns are usually the flow velocity the pressure and density
and temperature here is an introduction to numerical methods for partial
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