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the basic notions of
analytical mechanics,

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but also with some of its main applications: astronomy, statistical mechanics, continuum mechanics and (very briefly) field theory. The book has been conceived in such a way that it can be used at different levels: for instance the two chapters on statistical mechanics can be read, skipping the

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and mathematical
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mechanics, or
theoretical mechanics
is a collection of closely
related alternative
formulations of
classical mechanics. It

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was developed by many scientists and mathematicians during the 18th century and onward, after Newtonian mechanics. Since Newtonian mechanics considers vector quantities of motion, particularly accelerations, momenta, forces, of the constituents of the system, an alternative name for the mechanics governed by Newton'

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4 b. Spherical polar
The unit vectors \hat{r} , $\hat{\theta}$,
and $\hat{\phi}$ are not
constant. c. Cylindrical
The unit vectors $\hat{\rho}$,
 $\hat{\phi}$, and \hat{z} are not
constant. 2. Variables
of Motion To describe
the motion of a
particle, we use 4
variables: r , v , a , and t ;
all measured with
respect to some
selected origin of

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A Review of Analytical
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Introduction These
lecture notes cover the
third course in
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Classical Mechanics,
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Fall of 2012 by
Professor Stewart to
advanced
undergraduates
(course 8.09) as well as
to graduate students
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prerequisite classical
mechanics II course the

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the first (if not the first)

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and its application to mechanics

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