Modern

Chapter 1

1. Classical Relatively  $\vec{F} = m \frac{d\vec{v}}{dt} = m \vec{a}$ 

Newcon's Laws of motion only nork correctly in thereial reference frames, that is, reference frames in which the Law of thereia holds invariant, unchanged in any reference frames that moves with constant velocity related to an inertial frame.

Theren:

Any reference frame that moves at constant velocity with repeat to an ineveral frame is also an ihereial frame. Newton's laws of mechanics are invariant in all reference systems connected by a Galolean transformation.

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Ex! Two equally matched noners race each other over courses. Each carsman rows at speed c in still water; the current in the wher moves at speed v, Boart 1 goes from A to B, a distance L, and back. Boart 2 goes from A to C, also a distance L, and back. Which boart who the race?

A DESS C

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