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encyclopedia  
area of scientific study. For other uses, see Mechanic

is the branch of science concerned with the behavior of objects to forces or displacements, and the subsequent effects on their environment. The scientific discipline has its roots in ancient Greece with the writings of Aristotle and Archimedes[1][2][3] in the history of classical mechanics and timeline of classical mechanics. During the early modern period, scientists such as Galileo, Kepler, and especially Newton, laid the foundation for what is now known as classical mechanics. It is a branch of classical physics that deals with particles that are either at rest or are moving with velocities significantly less than the speed of light. It can also be defined as a branch of science which deals with the motion of and forces on objects.

**PDF**

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Classical versus quantum  
Classical mechanics  
 $\vec{v}(t) = \int \vec{a}(t) dt$   
Second law of motion

History  
Timeline

Branches[hide]

- Applied
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