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2.12 The term  
generalized mechanics  
has come to designate a  
variety of classical

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Mechanics in which the Lagrangian contains time derivatives of  $q_i$  higher than the first.

Problems for which triple dot  $x = f(x, \dot{x}, \ddot{x}, t)$  have been referred to as 'jerky' mechanics. Such equations of motion have interesting applications in chaos theory (cf. Chapter 11).

By applying the

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Classical refers to the  
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quantum mechanics.

Velocity:  $v =$  Linear  
momentum:  $p = mv$ .  $dp$

.  $dt$  In most cases, mass

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special relativity.

Classical refers to the  
con-tradistinction to  
quantum mechanics.

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Linear momentum:  $p =$   
 $mv$ . Force:  $F = dp/dt$ .

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transition to the

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the student with new

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handling both the

formalism of the theory

and the operational

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used throughout the

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connections to modern  
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problems within the  
body of each chapter.

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teach readers both  
analytical methods and  
how to use computer  
algebra systems and  
computer programming  
to solve problems in  
classical mechanics. End-  
of-chapter problems  
allow students to hone  
their skills in problem  
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the use of a computer.

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