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properties. We  
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16.1 Vector  
Fields. This  
chapter is  
concerned with  
applying  
calculus in the  
context of  
vector fields. A  
two-dimensional  
vector field is a  
function  $f$  that  
maps each point  
( $x,y$ ) in  $R^2$  to a  
two- dimensional

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2. A quantity possessing both magnitude and direction, represented by an arrow the direction of which indicates the direction of the quantity and the length of which is

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the broader subject of multivariable calculus, which includes vector calculus as well as partial differentiation and multiple integration. Vector calculus plays an important role in differential

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using a  
conservation law  
in integral  
form, and then  
converting the  
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of these is a vast topic in itself and is the subject of numerous books and a great deal of current research, so it is not possible to go into any detail in this book. However, a number of important

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types of

functions:

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(or Scalar

Field) and

Vector Functions

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Point Function A

scalar function

$(x, y, z)$  defined

over some region

$R$  of space is a

function which

associates, to

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