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Chapter 18 Vector Calculus 282 x 18.1. Vector Fields A vector field is an association of a vector to each point  $X$  of a region  $R$ :  $(18.2) F(x; y; z) = \dots$ . Thus, it is the velocity field of the fluid that is the object of study, rather than the equations of motion. It can be shown that the velocity field completely determines the motion.

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