

***Differential Equations An Introduction To Modern Methods And  
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CHAPTER1:INTRODUCTION A.MOTIVATION Fix a point  $x_0 \in \mathbb{R}^n$  and consider the ordinary differential equation: (ODE)  $x'(t) = b(x(t))$  ( $t > 0$ )  $x(0) = x_0$ , where  $b: \mathbb{R}^n \rightarrow \mathbb{R}^n$  is a given, smooth vector field and the solution is the trajectory  $x(\cdot): [0, \infty) \rightarrow \mathbb{R}^n$ . Trajectory of the differential equation Notation.  $x(t)$  is the state of the system at time  $t \geq 0$ ,  $x'(t) := \frac{d}{dt} x(t)$ .

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