MATLAB's standard solver for ordinary differential equations (ODEs) is the function **ode45**. This function implements a Runge-Kutta method with a variable time step for efficient computation. **ode45** is designed to handle the following general problem

$$\frac{d\mathbf{y}}{dt} = \mathbf{f}(t,\mathbf{y}) \qquad \mathbf{y}(t_o) = \mathbf{y}_o \qquad [1]$$

where t is the independent variable (time, position, volume) and $\mathbf{y}$ is a vector of dependent variables (temperature, position, concentrations) to be found. The mathematical problem is specified when the vector of functions on the right-hand side of Eq. [1], $\mathbf{f}(t,\mathbf{y})$, is set and the initial conditions, $\mathbf{y} = \mathbf{y}_o$ at time t_o, are specified.

The notes here apply to versions of MATLAB above 5.0 and cover the basics of using the function **ode45**. For more information on this and other ODE solvers in MATLAB, see the on-line help.

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