Numerical Solution of Ordinary Differential Equation

- A first order initial value problem of ODE may be written in the form

$$y'(t) = f(y,t), \qquad y(0) = y_0$$

- Example:

$$y'(t) = 3y + 5, \qquad y(0) = 1$$

$$y'(t) = ty + 1, \qquad y(0) = 0$$

- Numerical methods for ordinary differential equations calculate solution on the points, $t_n = t_{n-1} + h$ where *h* is the steps size

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Joe D. Hoffman,Steven Frankel

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Fox,2012-12-06 Nearly 20 years ago we produced a treatise of about the same length as this book entitled Computing methods for scientists and engineers It was stated that most computation is performed by workers whose mathematical training stopped somewhere short of the professional level and that some books are therefore needed which use quite simple mathematics but which nevertheless communicate the essence of the numerical sense which is exhibited by the real computing experts and which is surely needed at least to some extent by all who use modern computers and modern numerical software In that book we treated at no great length a variety of computational problems in which the material on ordinary differential equations occupied about 50 pages At that time it was quite common to find books on numerical analysis with a little on each topic ofthat field whereas today we are more likely to see similarly sized books on each major topic for example on numerical linear algebra numerical approximation numerical solution ofordinary differential equations numerical solution of partial differential equations and so on These are needed because our numerical education and software have improved and because our relevant problems exhibit more variety and more difficulty Ordinary differential equa tions are obvious candidates for such treatment and the current book is written in this sense

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of the Conference on the Numerical Solution of Ordinary Differential Equations D.G. Bettis,1974-01-25

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