

Table 1: Development of Euler Methods

Method	$y_{n+1} - y_n = \Phi_{E\ method}(x_n, y_n; h)$	Stability Function $R_{Method}(z)$
<i>EM</i>	$= hf(x_n, y_n)$	$1 + z$
<i>ME</i>	$= hf\left(x_n + \frac{1}{2}h, y_n + \frac{1}{2}hf(x_n, y_n)\right)$	$1 + z + \frac{1}{2}z^2$
<i>IE</i>	$= \frac{1}{2}h\left(f(x_n, y_n) + f\left(x_n + h, y_n + hf(x_n, y_n)\right)\right)$	$1 + z + \frac{1}{2}z^2 + \frac{1}{4}z^3$
<i>IME</i>	$= hf\left(x_n + \frac{1}{2}h, y_n + \frac{1}{2}hf\left(x_n + h, y_n + hf(x_n, y_n)\right)\right)$	$1 + z + \frac{1}{2}z^2 + \frac{1}{4}z^3$
<i>MIME</i>	$= hf\left(x_n + \frac{1}{2}h, y_n + \frac{1}{2}hf\left(x_n + \frac{1}{2}h, y_n + \frac{1}{2}hf(x_n, y_n)\right)\right)$	$1 + z + \frac{1}{2}z^2 + \frac{1}{4}z^3$
<i>TOEM</i>	$= hf\left(x_n + \frac{1}{2}h, y_n + \frac{1}{2}hf\left(x_n + \frac{1}{2}h, y_n + \frac{1}{3}hf(x_n, y_n)\right)\right)$	$1 + z + \frac{1}{2}z^2 + \frac{1}{6}z^3$

Numerical Integration Of Differential Equations

JR Anderson



Numerical Integration Of Differential Equations:

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