

Error

Round off error

Error from Eulers  
method

Step size



The graph illustrates the trade-off between two types of numerical errors. The vertical axis represents the total error, and the horizontal axis represents the step size. The 'Error from Eulers method' line shows that as the step size increases, the truncation error increases linearly. Conversely, the 'Round off error' line shows that as the step size decreases, the round-off error increases linearly. The intersection of these two lines represents the optimal step size that minimizes the total error.