

Introduction to Week Five

Initial Value Problems

Systems of Differential Equations

✔ **Video:** Higher-Order ODEs and Systems | Lecture 53
7 min

✔ **Reading:** Systems of ODEs
10 min

Initial Value Problems in MATLAB

Boundary Value Problems

Quiz

Programming Assignment: The Two-Body Problem

Systems of ODEs

Write down the modified Euler method (second-order Runge-Kutta method) for the system of equations given by

$\dot{x} = f(t, x, y, z), \quad \dot{y} = g(t, x, y, z), \quad \dot{z} = h(t, x, y, z).$

✔ Completed Go to next item

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