

Problem 1.15

[Difficulty: 5]

1.15 For Problem 1.14, the initial horizontal speed of the sky diver is 70 m/s. As she falls, the k value for the vertical drag remains as before, but the value for horizontal motion is $k = 0.05 \text{ N} \cdot \text{s/m}^2$. Compute and plot the 2D trajectory of the sky diver.

Given: Data on sky diver: $M = 70 \text{ kg}$ $k_{\text{vert}} = 0.25 \frac{\text{N} \cdot \text{s}^2}{\text{m}^2}$ $k_{\text{horiz}} = 0.05 \frac{\text{N} \cdot \text{s}^2}{\text{m}^2}$ $U_0 = 70 \frac{\text{m}}{\text{s}}$

Find: Plot of trajectory.

Solution: Use given data; integrate equation of motion by separating variables.

Treat the sky diver as a system; apply Newton's 2nd law in horizontal and vertical directions:

Vertical: Newton's 2nd law for the sky diver (mass M) is (ignoring buoyancy effects): $M \frac{dV}{dt} = M \cdot g - k_{\text{vert}} V^2$ (1)

For $V(t)$ we need to integrate (1) with respect to t :

Separating variables and integrating: $\int_0^V \frac{V}{\frac{M \cdot g}{k_{\text{vert}}} - V^2} dV = \int_0^t 1 dt$

so $1 = \frac{1}{2} \sqrt{\frac{M}{k_{\text{vert}} g}} \ln \left(\frac{\sqrt{\frac{M \cdot g}{k_{\text{vert}}}} + V}{\sqrt{\frac{M \cdot g}{k_{\text{vert}}}} - V} \right)$

Rearranging: $V(t) = \sqrt{\frac{M \cdot g}{k_{\text{vert}}}} \frac{\left(e^{\frac{2 \sqrt{\frac{k_{\text{vert}} g}{M}} t}} - 1 \right)}{\left(e^{\frac{2 \sqrt{\frac{k_{\text{vert}} g}{M}} t} + 1} \right)}$ so $V(t) = \sqrt{\frac{M \cdot g}{k_{\text{vert}}}} \tanh \left(\sqrt{\frac{k_{\text{vert}} g}{M}} t \right)$

For $y(t)$ we need to integrate again: $\frac{dy}{dt} = V$ or $y = \int V dt$

$y(t) = \int_0^t V(t) dt = \int_0^t \sqrt{\frac{M \cdot g}{k_{\text{vert}}}} \tanh \left(\sqrt{\frac{k_{\text{vert}} g}{M}} t \right) dt = \sqrt{\frac{M \cdot g}{k_{\text{vert}}}} \ln \left(\cosh \left(\sqrt{\frac{k_{\text{vert}} g}{M}} t \right) \right)$

$y(t) = \sqrt{\frac{M \cdot g}{k_{\text{vert}}}} \ln \left(\cosh \left(\sqrt{\frac{k_{\text{vert}} g}{M}} t \right) \right)$

Introduction To Fluid Mechanics 8th Solution Manual

Ying Liu



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Full Equations (FEQ) Model for the Solution of the Full, Dynamic Equations of Motion for One-dimensional Unsteady Flow in Open Channels and Through Control Structures Delbert D. Franz, Charles S. Melching, 1997

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Computational Fluid and Solid Mechanics K.J. Bathe, 2001-05-21 The MIT mission to bring together Industry and Academia and to nurture the next generation in computational mechanics is of great importance to reach the new level of mathematical modeling and numerical solution and to provide an exciting research environment for the next generation in computational mechanics Mathematical modeling and numerical solution is today firmly established in science and engineering Research conducted in almost all branches of scientific investigations and the design of systems in practically all disciplines of engineering can not be pursued effectively without frequently intensive analysis based on numerical computations The world we live in has been classified by the human mind for descriptive and analysis purposes to consist of fluids and solids continua and molecules and the analyses of fluids and solids at the continuum and molecular scales have traditionally been pursued separately Fundamentally however there are only molecules and particles for any material that interact on the microscopic and macroscopic scales Therefore to unify the analysis of physical systems and to reach a deeper understanding of the behavior of nature in scientific investigations and of the behavior of designs in engineering endeavors a new level of analysis is necessary This new level of mathematical modeling and numerical solution does not merely involve the analysis of a single medium but must encompass the solution of multi physics problems involving fluids solids and their interactions involving multi scale phenomena from the molecular to the macroscopic scales and must include uncertainties in the given data and the solution results Nature does not distinguish between fluids and solids and does not ever repeat itself exactly This new level of analysis must also include in engineering the effective optimization of systems and the modeling and analysis of complete life spans of engineering products from design to fabrication to possibly multiple repairs to end of service **Scientific and Technical Books and Serials in Print**, 1989 *Student Solutions Manual to accompany A*

Brief Introduction to Fluid Mechanics, 5e Donald F. Young, Bruce R. Munson, Theodore H. Okiishi, Wade W. Huebsch, 2011-03-15 This is the Student Solutions Manual to accompany A Brief Introduction to Fluid Mechanics 5th Edition A Brief Introduction to Fluid Mechanics 5th Edition is designed to cover the standard topics in a basic fluid mechanics course in a streamlined manner that meets the learning needs of today's student better than the dense encyclopedic manner of traditional texts This approach helps students connect the math and theory to the physical world and practical applications

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