

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

Brendan G. Carr



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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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William S. Janna, 2009-06-01 **Bericht** Jyväskylän yliopisto. Matematiikan laitos, 1993 **Books in Print**, 1991

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Table of Contents Introduction To Fluid Mechanics 8th Solution Manual

1. Understanding the eBook Introduction To Fluid Mechanics 8th Solution Manual
 - The Rise of Digital Reading Introduction To Fluid Mechanics 8th Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Introduction To Fluid Mechanics 8th Solution Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Introduction To Fluid Mechanics 8th Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Introduction To Fluid Mechanics 8th Solution Manual
 - Personalized Recommendations
 - Introduction To Fluid Mechanics 8th Solution Manual User Reviews and Ratings
 - Introduction To Fluid Mechanics 8th Solution Manual and Bestseller Lists
5. Accessing Introduction To Fluid Mechanics 8th Solution Manual Free and Paid eBooks
 - Introduction To Fluid Mechanics 8th Solution Manual Public Domain eBooks
 - Introduction To Fluid Mechanics 8th Solution Manual eBook Subscription Services
 - Introduction To Fluid Mechanics 8th Solution Manual Budget-Friendly Options
6. Navigating Introduction To Fluid Mechanics 8th Solution Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Introduction To Fluid Mechanics 8th Solution Manual Compatibility with Devices
 - Introduction To Fluid Mechanics 8th Solution Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Introduction To Fluid Mechanics 8th Solution Manual
 - Highlighting and Note-Taking Introduction To Fluid Mechanics 8th Solution Manual
 - Interactive Elements Introduction To Fluid Mechanics 8th Solution Manual

8. Staying Engaged with Introduction To Fluid Mechanics 8th Solution Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Introduction To Fluid Mechanics 8th Solution Manual
9. Balancing eBooks and Physical Books Introduction To Fluid Mechanics 8th Solution Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Introduction To Fluid Mechanics 8th Solution Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Introduction To Fluid Mechanics 8th Solution Manual
 - Setting Reading Goals Introduction To Fluid Mechanics 8th Solution Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Introduction To Fluid Mechanics 8th Solution Manual
 - Fact-Checking eBook Content of Introduction To Fluid Mechanics 8th Solution Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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