

Experiment 1. One Dimensional Motion

Group No.		Student's ID & Name	
Student's ID & Name		Student's ID & Name	
TA's Name		Course Code	PHY107_____

A. Linear Uniform Motion

Table 1. mass of a glider and parts

mass of the glider, M (g)	mass of holding magnet, m_1 (g)	mass of needle, m_2 (g)	mass of hook, m_3 (g)
1.94	4.5	10	9.6

Table 2. The velocity measured from timer 1 (V_1) and the velocity measured from timer 2 (V_2)

Distance (m)	V (m/s)							
	1		2		3		Average	
	V_1	V_2	V_1	V_2	V_1	V_2	V_1	V_2
1.0	0.612	0.606	0.603	0.557	0.600	0.595	0.592	0.596
0.8	0.624	0.620	0.604	0.601	0.608	0.602	0.612	0.608
0.6	0.625	0.606	0.607	0.589	0.617	0.597	0.616	0.597

Table 3. The velocity (V_1 and V_2) of the glider which is put slotted weight (with 0.8 m distance)

Put Slotted Weight (g)	V (m/s)							
	1		2		3		Average	
	V_1	V_2	V_1	V_2	V_1	V_2	V_1	V_2
40	0.556	0.538	0.559	0.571	0.566	0.549	0.560	0.543
80	0.527	0.510	0.534	0.506	0.536	0.518	0.529	0.511
100	0.504	0.489	0.518	0.501	0.503	0.487	0.508	0.492

B. Uniformly Accelerated Motion with an Inclined Track

Distance between two light barriers(s) : 0.375 m

Table 4. The velocities of the accelerated glider on the inclined track

Measurement (τ)	V_1 (m/s)	V_2 (m/s)	V_1^2 (m ² /s ²)	V_2^2 (m ² /s ²)	a (m/s ²)	$\theta_{\text{calculated}}$ ($^\circ$)
5	1.052	1.335	1.107	1.780	0.625	4.3
8	1.261	1.559	1.590	2.431	1.121	6.6
11	1.492	1.802	2.226	3.247	1.361	8.0

$$\frac{V_2^2 - V_1^2}{2\Delta x} = a$$

$$\sin^{-1}\left(\frac{a}{g}\right) = \theta$$

Data Sheet 2

**United States. Army Materiel
Command**



Data Sheet 2:

Military Publications United States. Army Materiel Command,1973 Provides numerical and alphabetical lists of all US Army Materiel Command AMC publications and lists of forms excluding temporary test and one time forms **Nuclear Data Sheets** ,1996 **Solar Energy Project** United States. Department of Energy. Office of Conservation and Solar Applications,United States. Department of Energy. Office of Conservation and Solar Applications. Market Development and Training Program,1979 **The Journal of the Society of Automotive Engineers** ,1923 Registry of Toxic Effects of Chemical Substances National Institute for Occupational Safety and Health,1987 This compilation will provide ready reference for potential toxicity of chemicals found in the workplace and should be useful to occupational health physicians industrial hygienists toxicologists and researchers Alphabetical arrangement by substances Entries include such details as molecular weight Wiswesser Line Notation synonyms and reference from which data about toxicity derived Miscellaneous appendixes including one titled Aquatic toxicity Bibliographic references **Monthly Catalog of United States Government Publications** ,1981 **Machinery** Fred Herbert Colvin,Lester Gray French,1928 Electronics ,1945-07 June issues 1941 44 and Nov issue 1945 include a buyers guide section **Patent and Trademark Office Notices** United States. Patent and Trademark Office,2000 Machinery ,1922 San Francisco Estuary, Invasive Spartina Project, Spartina Control Program ,2004 **Factory** ,1912 Vols 24 no 3 v 34 no 3 include International industrial digest **New Pencil Points** ,1924 **The Electrical Engineer** ,1897 *Quarterly of the National Fire Protection Association* ,1918 Wisconsin Engineer ,1911 **Practical Engineer** ,1911 American Architect and the Architectural Review ,1922 **Journal of the United States Artillery** ,1922 **American Artisan, Tinner and House Furnisher** Daniel Stern,1924

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Table of Contents Data Sheet 2

1. Understanding the eBook Data Sheet 2
 - The Rise of Digital Reading Data Sheet 2
 - Advantages of eBooks Over Traditional Books
2. Identifying Data Sheet 2
 - 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 Data Sheet 2
 - User-Friendly Interface
4. Exploring eBook Recommendations from Data Sheet 2
 - Personalized Recommendations
 - Data Sheet 2 User Reviews and Ratings
 - Data Sheet 2 and Bestseller Lists
5. Accessing Data Sheet 2 Free and Paid eBooks
 - Data Sheet 2 Public Domain eBooks

- Data Sheet 2 eBook Subscription Services
- Data Sheet 2 Budget-Friendly Options
- 6. Navigating Data Sheet 2 eBook Formats
 - ePub, PDF, MOBI, and More
 - Data Sheet 2 Compatibility with Devices
 - Data Sheet 2 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Data Sheet 2
 - Highlighting and Note-Taking Data Sheet 2
 - Interactive Elements Data Sheet 2
- 8. Staying Engaged with Data Sheet 2
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Data Sheet 2
- 9. Balancing eBooks and Physical Books Data Sheet 2
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Data Sheet 2
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Data Sheet 2
 - Setting Reading Goals Data Sheet 2
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Data Sheet 2
 - Fact-Checking eBook Content of Data Sheet 2
 - 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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