

Ball toss model: projectile motion with no air resistance

Modified Euler evolution equations: $x_{n+1} = x_n + 0.5 * (v_n + v_{n+1}) * dt$

Force equations: $F_x = 0$

$$v_{n+1} = v_n + a_n * dt$$

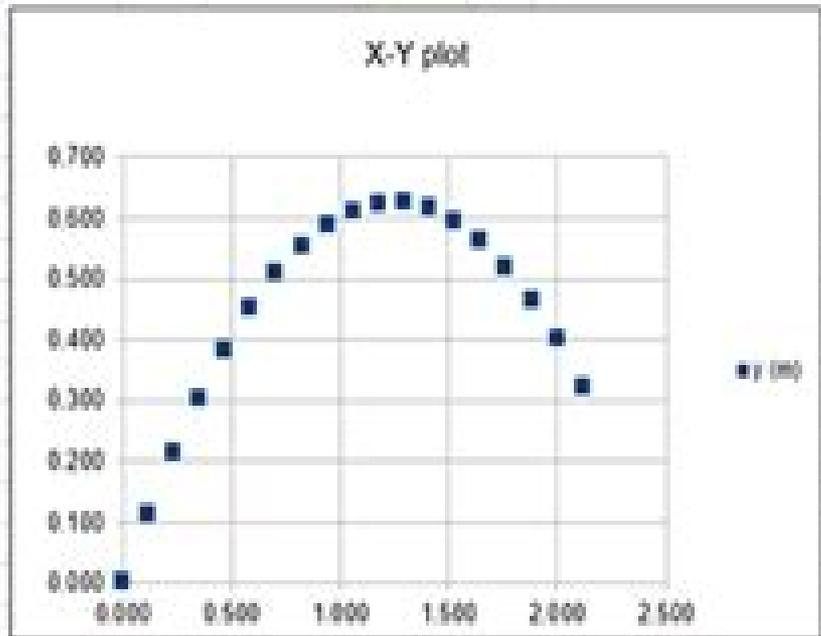
$$F_y = -m * g$$

To use, change a parameter value or click the orange box below. The (t, x, y) data will be automatically copied to the clipboard.

Parameter	Description	Value	Units	ball								
				t (s)	x (m)	y (m)	vx (m/s)	vy (m/s)	ax (m/s ²)	ay (m/s ²)	Fx (N)	Fy (N)
y ₀	initial height	0	m	0.000	0.000	0.000	3.536	3.536	0.000	-10.000	0.000	-10.000
v ₀	initial speed	5	m/s	0.033	0.118	0.112	3.536	3.203	0.000	-10.000	0.000	-10.000
θ ₀	initial angle	45	°	0.067	0.235	0.213	3.536	2.870	0.000	-10.000	0.000	-10.000
g	gravitation field strength	10	m/s ²	0.100	0.353	0.303	3.536	2.537	0.000	-10.000	0.000	-10.000
m	mass	1	kg	0.133	0.471	0.382	3.536	2.204	0.000	-10.000	0.000	-10.000
dt	time step	0.0333	s	0.167	0.589	0.450	3.536	1.871	0.000	-10.000	0.000	-10.000
				0.200	0.706	0.507	3.536	1.538	0.000	-10.000	0.000	-10.000
				0.233	0.824	0.552	3.536	1.205	0.000	-10.000	0.000	-10.000
				0.266	0.942	0.587	3.536	0.872	0.000	-10.000	0.000	-10.000
				0.300	1.060	0.610	3.536	0.539	0.000	-10.000	0.000	-10.000
				0.333	1.177	0.623	3.536	0.206	0.000	-10.000	0.000	-10.000
				0.366	1.295	0.624	3.536	-0.127	0.000	-10.000	0.000	-10.000
				0.400	1.413	0.614	3.536	-0.460	0.000	-10.000	0.000	-10.000
				0.433	1.531	0.594	3.536	-0.793	0.000	-10.000	0.000	-10.000
				0.466	1.648	0.562	3.536	-1.126	0.000	-10.000	0.000	-10.000
				0.500	1.766	0.518	3.536	-1.459	0.000	-10.000	0.000	-10.000
				0.533	1.884	0.464	3.536	-1.792	0.000	-10.000	0.000	-10.000
				0.566	2.001	0.399	3.536	-2.125	0.000	-10.000	0.000	-10.000
				0.599	2.119	0.323	3.536	-2.458	0.000	-10.000	0.000	-10.000
				0.633	2.237	0.235	3.536	-2.791	0.000	-10.000	0.000	-10.000
				0.666	2.355	0.137	3.536	-3.124	0.000	-10.000	0.000	-10.000
				0.699	2.472	0.027	3.536	-3.457	0.000	-10.000	0.000	-10.000

Change a parameter value or click here to select and copy the gray cells.

X-Y plot



To change the range of copied cells, right-click the "projectile" worksheet tab and choose "View Code" from the popup menu.

Spreadsheet Physics

Peter Drago



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macros So starting to learn scientific calculation with Excel e.g at High School is a targeted road to scientific computing The primary target groups of this book are students with a major or minor subject in physics who have interest in computational techniques and at the same time want to deepen their knowledge of physics Math physics and computer science teachers and Teacher Education students will also find a companion in this book to help them integrate computer techniques into their lessons Even professional physicists who want to venture into Scientific Computing may appreciate this book

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Redesigning Education 2023 Mohd Fakhizan bin Romlie,Siti Haryani Shaikh Ali,Zolman Bin Hari,Meng Chew Leow,2024-07-13 This book is a compilation of conference papers presented at the International Conference on Advancing and Redesigning Education 2023 ICARE 23 It covers four main topics including Technology Enhanced Learning Innovative Curriculum and Program Offering Learning Beyond Classroom and Digital Campus This book presents the recent innovations and the authors practical experiences in teaching and learning and helps educational practitioners to enhance their teaching and learning **Excel for Engineers and Scientists** S. C. Bloch,2003 In this basic introduction the author aims to help engineers and scientists to understand and use Excel in their fields The book is interactive and designed to be used in

conjunction with a computer to provide a hands on learning experience *Software for Teaching Science* Roger Frost,1998

Physical Chemistry Calculations Rodney J. Sime,2005 Physical Chemistry Calculations is a practical guide for students and instructors who want to learn how to use the most popular spreadsheet and computational software to solve problems in physical chemistry The book provides students with a complementary approach to the chemistry and physics they are learning in the classroom Physical Chemistry Calculations also gives a solid introduction to calculations with Excel VB VBA MathCad and Mathematica

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Table of Contents Spreadsheet Physics

1. Understanding the eBook Spreadsheet Physics
 - The Rise of Digital Reading Spreadsheet Physics
 - Advantages of eBooks Over Traditional Books
2. Identifying Spreadsheet Physics
 - 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 Spreadsheet Physics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Spreadsheet Physics
 - Personalized Recommendations

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

- 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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