

## **Collisions and Momentum Internet Lab**

### **I. Purpose:**

To investigate the "law of conservation of momentum" by observing virtual collisions between trolleys.

### **II. Background:**

Momentum is a vector - that is, it has a magnitude and a direction. Its magnitude is the product of two quantities: mass and velocity.

Motion is one-dimensional. In this activity, to indicate direction we will pick the direction to the right to be positive (+) and the left to be negative (-). We will also give the cars letter designations, the red one is R and the blue one is B.

The law of conservation of momentum states that the total momentum before (in our case a crash) is equal to the total momentum after. In calculating the total momentum you have to calculate the momentum of each object then add them together. In doing so, you need to take into account each cars' direction (or sign) when combining them. Remember, if something is not moving its velocity and therefore its momentum is zero.

### **III. Internet Lab Activities:**

Log onto the website: <http://www.walter-fendt.de/ph14e/collision.htm> Complete the activities and questions below in Parts A-D as well as the concluding Thought Questions.

#### **Part A: Elastic Collision, Identical Masses**

1. Predict what will happen if a mass that is originally moving hits an equal mass that is originally stationary.
2. Now test your prediction by manipulating the conditions in the virtual collision experiment.
3. Summarize how the red car's (R) velocity and momentum changed as a result of the collision. Summarize how the blue car's (B) velocity and momentum changed as a result of the collision.
4. Did the total momentum before the collision equal the momentum after the collision? What is momentum? (Note how the change of each car's momentum are equal.)
5. How did the initial kinetic energy compare to the final kinetic energy for each car? Was energy conserved?

# Answers Momentum And Collisions Internet Lab

**United States. Energy Research and  
Development Administration**



## **Answers Momentum And Collisions Internet Lab:**

*From Actions To Answers - Proceedings Of The 1989 Theoretical Advanced Study Institute In Elementary Particle Physics*  
Thomas A Degrand, Doug Toussaint, 1990-04-01 This School focussed on computation in theoretical particle physics  
Accordingly it had large components on collider phenomenology and lattice gauge theory A number of lectures on current topics in modern mathematical physics conformal field theory quantum gravity and sphalerons were included

Biology/science Materials Carolina Biological Supply Company, 1991 Energy Research Abstracts, 1992-10 Nuclear Science Abstracts, 1973 *Government Reports Announcements & Index*, 1991 **Annual Report 1989-90** New Brunswick. Department of Transportation, 1991 General activity review of associated branches and agencies to the Department which includes corporate securities registrations a list of tenders received and general financial data Branches and agencies reviewed are responsible for motor vehicle activity highway construction traffic engineering telecommunications and public utilities **Physics Briefs**, 1993 The Personalized System of Instruction in Higher Education: Readings on PSI--the Keller Plan John J. Knightly, 1972 *ERDA Research Abstracts* United States. Energy Research and Development Administration, 1976 **High Energy Physics 99 Proceedings of the International Europhysics Conference on High Energy Physics, Tampere, Finland, 15-21 July 1999** K Huitu, H Kurki-Suonio, J Maalampi, 2000-01-01 High Energy Physics 99 contains the 18 invited plenary presentations and 250 contributions to parallel sessions presented at the International Europhysics Conference on High Energy Physics The book provides a comprehensive survey of the latest developments in high energy physics Topics discussed include hard high energy structure functions soft interactions heavy flavor the standard model hadron spectroscopy neutrino masses particle astrophysics field theory and detector development **ERDA Energy Research Abstracts**, 1983 **INIS Atomindex**, 1987 **Bulletin of the Atomic Scientists**, 1970-06 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world Electrical & Electronics Abstracts, 1988 *Backpacker*, 2004-03 Backpacker brings the outdoors straight to the reader's doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world's first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker's Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured College Physics Jerry D. Wilson, 2000 **Applied Mechanics Reviews**, 1948 ERDA Research Abstracts, 1976 **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration, **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration. Technical Information Center, 1976

## Unveiling the Magic of Words: A Review of "**Answers Momentum And Collisions Internet Lab**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Answers Momentum And Collisions Internet Lab**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

<https://forums.acdsystems.com/results/publication/index.jsp/ac%20690%20pro%20manual.pdf>

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### **Answers Momentum And Collisions Internet Lab Introduction**

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