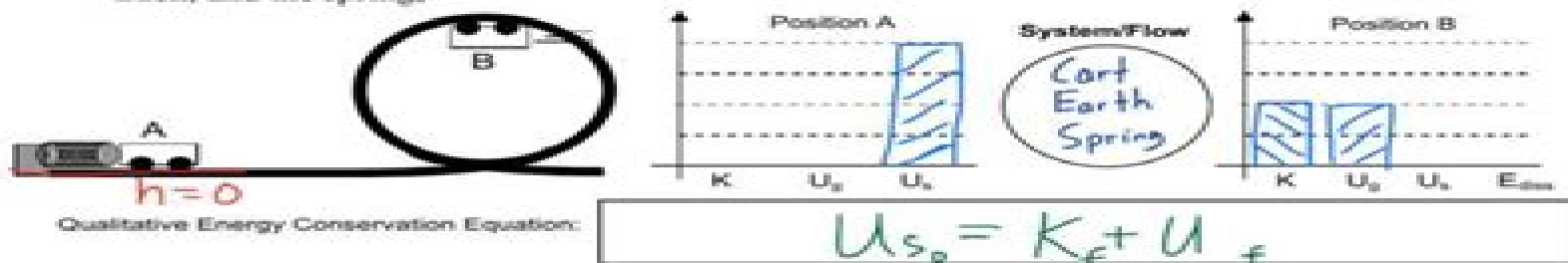


Unit 5: Worksheet 2 Energy Storage & Conservation with Bar Graphs

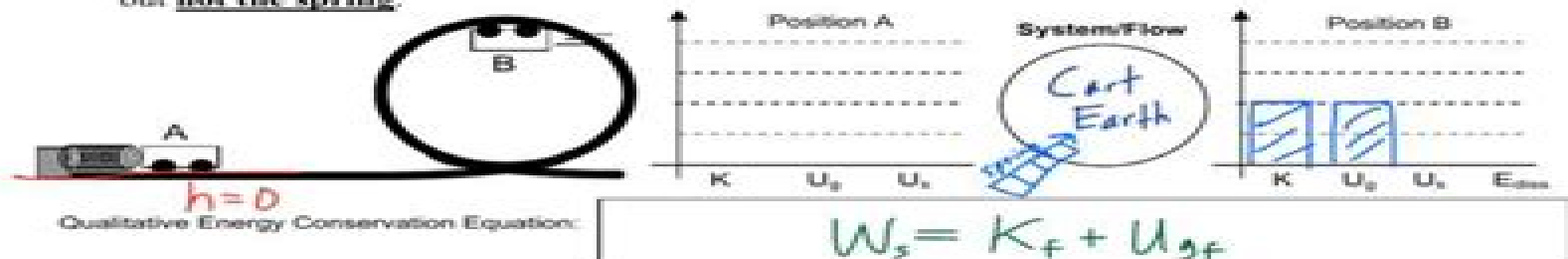
For each situation shown below:

1. List objects in the system within the circle. ***Always include the earth's gravitational field in your system.*
2. On the physical diagram, indicate your choice of zero height for measuring gravitational energy.
3. Sketch the energy bar graph for position A, indicate any energy flow into or out of the system from position A to position B on the System/Flow diagram, and sketch the energy bar graph for position B.
4. Write a qualitative energy equation that indicates the initial, transferred, and final energy of your system.

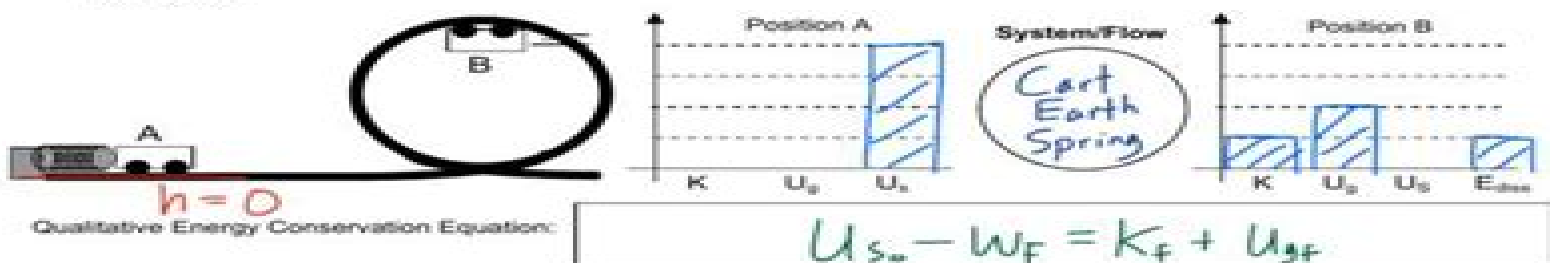
- 1a. In the situation shown below, a spring launches a roller coaster cart from rest on a frictionless track into a vertical loop. Assume the system consists of the cart, the earth, the track, and the spring.



- 1b. Repeat problem 1a for a frictionless system that includes the cart, the earth, and the track, but not the spring.



- 1c. Use the same system as problem 1a, but assume that there is friction between the cart and the track.



Answers Key Physics Principles Leon

Marcel A. Müller



Answers Key Physics Principles Leon:

The Legacy Of Leon Van Hove Alberto Giovannini, 2000-11-07 This important volume describes the wide ranging scientific activities of L on Van Hove through commentaries by his colleagues and a selection of his most influential papers and documents The reprinted papers are grouped by topic starting from his early work in mathematics and theoretical and statistical physics up to his very last contributions in elementary particle physics and multiparticle dynamics Van Hove s career as teacher director and science advisor in many European institutions is presented in sketches by friends and coworkers A selection of his speeches and documented thoughts on science completes the volume **Zeitschrift Für Naturforschung** ,2008 El-Hi textbooks in print R. R. Bowker LLC,1983 **Educational Times** ,1886 **Leo Szilard** David Grandy,1996 Best known for his work on the atomic bomb Leo Szilard made important contributions to twentieth century physics biology and information theory He is however an interesting figure apart from his scientific accomplishments In brief he did not merely do science but lived it as well He was a true believer in science and its potential to save the world This intellectual biography of Szilard captures the visionary centerpoint of his passion for science and public activism This work will be of interest to historians of science physicists and biologists Contents The Intellectual Landscape The Thunderclap and Its Antecedents Moving into Nuclear Physics A Time of Heartbreak and Frustration Down the Shaft From Physics to Biology and Political Chivalry Notes Bibliography Index **The Athenaeum** ,1886 **Journal of Education and School World** ,1887 **The Publishers' Trade List Annual** ,1985 The Athenaeum James Silk Buckingham,John Sterling,Frederick Denison Maurice,Henry Stebbing,Charles Wentworth Dilke,Thomas Kibble Hervey,William Hepworth Dixon,Norman Maccoll,Vernon Horace Rendall,John Middleton Murry,1886 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1977 **Books and Pamphlets, Including Serials and Contributions to Periodicals** Library of Congress. Copyright Office,1968 The School Journal ,1895 **New York School Journal** ,1895 **The Academy** ,1887 Soviet Physics ,1974 The Saturday Review of Politics, Literature, Science and Art ,1872 The Saturday Review of Politics, Literature, Science, Art, and Finance ,1877 Boston Journal of Chemistry and Pharmacy ,1890 The Electrician ,1882 **The Electrical Journal** ,1882

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