

Energy Model Worksheet 1a: Qualitative Analysis - Pie Charts

Use pie charts to analyze the energy changes in each situation given.

- Designate your choice of system with a dotted line. Choose your system so that the energies involved are internal (within the system).
- Carefully label the pies to correspond with the positions of the objects given. (A, B, C, etc.)
- The pies should be accurately divided and labeled with the energy storage mechanisms involved.
- Remember the 3 energy questions in deciding about the energy changes:
 1. Where does the energy come from? (What's the source of the energy?)
 2. What does the energy do?
 3. Where does the energy go?

* I chose to make E_{air} so small that it can be ignored. *

1. A wind-up toy is fully wound and at rest.



2. A wind-up toy is wound up and moving across level ground. The toy is speeding up.



3. The toy is wound up and is moving at a constant speed up an incline.



Us Energy Ws 1a V3 1

Avijit Lahiri



Us Energy Ws 1a V3 1:

Monthly Catalogue, United States Public Documents ,1993-07 *Environmental monitoring at major U.S. Energy Research and Development Administration contractor sites, calendar year 1976* United States. Energy Research and Development Administration. Division of Operational and Environmental Safety,1977 *Energy Research Abstracts* ,1990

Environmental Monitoring at Major U.S. Energy Research and Development Administration Contractor Sites, Calendar Year 1976 United States. Energy Research and Development Administration. Division of Operational and Environmental Safety,1977 *1979 Department of Energy Authorization* United States. Congress. House. Committee on Science and Technology,1978 *Oil and American Identity* Sebastian Herbstreuth,2014-09-10 American dependence on foreign oil has long been described as a serious threat to U S national security and continues to be a political flashpoint even as domestic fracking eases the US reliance on imported energy Oil and American Identity offers a fresh perspective on the subject by reframing energy dependency as a cultural discourse with intimate connections to American views on independence freedom consumption abundance progress and American exceptionalism Through a detailed reading of primary literature Sebastian Herbstreuth also shows how the dangers of foreign oil are linked to American descriptions of foreign oil producers as culturally different und thus undependable Herbstreuth shows how even reliable imports from the Middle East are portrayed as dangerous and undesirable because this region is particularly foreign from an American point of view while oil from friendly countries like Canada is cast as a benign form of energy trade Oil and American Identity rewrites the history of U S foreign oil dependence as a cultural history of the United States in the 20th century **Selected Reference Material,**

United States Atomic Energy Program: Eight-year isotope summary U.S. Atomic Energy Commission,1955 **NASA Technical Translation** ,1963 *Th Thorium* Reiner Ditz,Wolfgang Töpper,Bärbel Sarbas,Peter Schubert,2013-06-29 In connection with the recent treatment of radium and the actinides the Gmelin Institute is carrying out the description of thorium and its compounds The Supplement Volumes A 2 A 3 A 4 and A 5 with the history isotopes uses the recovery of thorium and general properties of thorium atom and ions the thermodynamics of its compounds and solutions spectroscopic data and analytical chemistry biological behavior health protection and safety control have already been published The Supplement Volumes C 1 C 2 and C 3 describing the compounds with the noble gases hydrogen oxygen compounds and nitrogen compounds are also available also have been published Supplement Volumes C 5 and C 7 describing the compounds with sulfur selenium tellurium and boron carbonates thiocynates alkoxides and carboxylates The Supplement Volumes D 1 D 2 and D 3 describing the properties of thorium ions in solution and the solvent extraction of thorium as well as Supplement Volume E describing the coordination compounds also have been published The present volume begins in a summary fashion with a description of the natural occurrence of the element Th Especially stressed are those facts that are most important in understanding its geological distribution on Earth as e g mode of occurrence and distribution among minerals and its

behavior in minerals as e g mode of occurrence and distribution among minerals and its behavior in minerals as e g diadochy and metamictization of minerals Attached is a tabulation of the highest reported Th or ThO₂ content in minerals that normally by their crystal chemical formula do not contain Th The main part of the present volume describes the minerals of Th As can be seen from the crystal chemical formulas there are in addition to a few minerals containing Th as the sole cation a number of minerals that contain Th as an additional cation or as a diadochic element In the case of diadochic substitution the mineral may represent a Th rich end member of a solid solution series and therefore is described as a separate Th mineral or may only sporadically contain higher amounts of Th no mineral description is given The mineral descriptions in this volume including oxides carbonates and phosphates siliconphosphates of Th comprise the following topics occurrence chemistry crystal form and structure optical and other physical properties and chemical and thermal behavior The silicates of Th and the deposits of Th will be described in the volume Thorium Suppl Vol A 1b that also contains a mineral index for both volumes

World Product Casts ,1985 *Individual Income Tax Returns* ,1991 **Statistical Mechanics** Avijit Lahiri,2002-11 This is a basic introductory level textbook aimed at enabling the student to understand the basic of the subject Statical mechanics is basically applied quatum mechanics involving situations where the wave functions of systems under consideration are incompletely known necessitating the introduction of ensembles and probabilities

Least Cost Utility Planning Initiative United States. Congress. House. Committee on Science and Technology. Subcommittee on Energy Development and Applications,1986 *Official Gazette of the United States Patent and Trademark Office* ,2000

Report and Recommendations of the Solar Energy Data Workshop, Held November 29-30, 1973 Charles Turner,1974

During the past several years the President of the United States has made the utilization of solar energy a national goal The National Science Foundation was given the task to coordinate Federal activities in solar energy research and technology One of the general objectives of this program is to provide the research and technology base required for the economic terrestrial application of solar energy and to foster the implementation of practical systems to the state required for commercial utilization The National Oceanic and Atmospheric Administration in cooperation with the National Science Foundation held a Solar Energy Workshop on November 29 30 1973 The objective of the workshop was to identify the requirements of the solar energy community by means of discussions among specialists in solar radiation technology A first draft of its recommendations to Working Group 1 appears in Attachment 1

Irregular Serials & Annuals ,1985 **Climatological Data for the United States by Sections** ,1917 **Technical Abstract Bulletin** Defense Documentation Center (U.S.),1963-05 **Geological Survey Professional Paper** ,1965 The Code of Federal Regulations of the United States of America ,1994 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government

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