

Unit 7: Worksheet 2

1. Calculate the gravitational field strength on the moon, which has a radius of 1.74×10^6 m, and a mass of 7.36×10^{22} kg.
2. How much would a 1500 kg satellite weigh at the surface of the moon? Do it two ways.

Assume that the diagram below represents the orbit of the satellite around the moon at an altitude of 100 km. (make sure to use SI Units!)



3. Construct a force diagram of the satellite in orbit.
4. Demonstrate the direction of the acceleration, if any, by means of a motion map.
5. What is the radius of the orbit of the satellite? (radius of moon + altitude of orbit)

Modeling Workshop Project 20physics Unit 7

A Gutmann



Modeling Workshop Project 20physics Unit 7:

Monthly Catalog of United States Government Publications ,1985 **How Science Works** Rob Toplis,2010-12-02 How Science Works provides student and practising teachers with a comprehensive introduction to one of the most dramatic changes to the secondary science curriculum Underpinned by the latest research in the field it explores the emergence and meaning of How Science Works and reviews major developments in pedagogy and practice With chapters structured around three key themes why How Science Works what it is and how to teach it expert contributors explore issues including the need for curriculum change arguments for scientific literacy for all school students views about science what we understand about scientific methods types of scientific enquiry and importantly effective pedagogies and their implications for practice Aiming to promote discussion and reflection on the ways forward for this new and emerging area of the school science curriculum it considers teaching controversial issues in science argumentation and questioning for effective teaching enhancing investigative science and developing reasoned scientific judgments the role of ICT in exploring How Science Works teaching science outside the classroom How Science Works is a source of guidance for all student new and experienced teachers of secondary science interested in investigating how the curriculum can provide creativity and engagement for all school students **Technical Abstract Bulletin** , *Scientific and Technical Aerospace Reports* ,1995

Handbook of Anatomical Models for Radiation Dosimetry Xie George Xu,Keith F. Eckerman,2009-09-01 Over the past few decades the radiological science community has developed and applied numerous models of the human body for radiation protection diagnostic imaging and nuclear medicine therapy The Handbook of Anatomical Models for Radiation Dosimetry provides a comprehensive review of the development and application of these computational mode *Monthly Catalogue, United States Public Documents* ,1995 **Resources in Education** ,1995 **Sustainable Environmental Engineering** Walter Z. Tang,Mika Sillanpää,2018-10-16 The important resource that explores the twelve design principles of sustainable environmental engineering Sustainable Environmental Engineering SEE is to research design and build Environmental Engineering Infrastructure System EEIS in harmony with nature using life cycle cost analysis and benefit analysis and life cycle assessment and to protect human health and environments at minimal cost The foundations of the SEE are the twelve design principles TDPs with three specific rules for each principle The TDPs attempt to transform how environmental engineering could be taught by prioritizing six design hierarchies through six different dimensions Six design hierarchies are prevention recovery separation treatment remediation and optimization Six dimensions are integrated system material economy reliability on spatial scale resiliency on temporal scale and cost effectiveness In addition the authors two experts in the field introduce major computer packages that are useful to solve real environmental engineering design problems The text presents how specific environmental engineering issues could be identified and prioritized under climate change through quantification of air water and soil quality indexes For water pollution control eight innovative technologies

which are critical in the paradigm shift from the conventional environmental engineering design to water resource recovery facility WRRF are examined in detail These new processes include UV disinfection membrane separation technologies Anammox membrane biological reactor struvite precipitation Fenton process photocatalytic oxidation of organic pollutants as well as green infrastructure Computer tools are provided to facilitate life cycle cost and benefit analysis of WRRF This important resource Includes statistical analysis of engineering design parameters using Statistical Package for the Social Sciences SPSS Presents Monte Carlos simulation using Crystal ball to quantify uncertainty and sensitivity of design parameters Contains design methods of new energy materials processes products and system to achieve energy positive WRRF that are illustrated with Matlab Provides information on life cycle costs in terms of capital and operation for different processes using MatLab Written for senior or graduates in environmental or chemical engineering Sustainable Environmental Engineering defines and illustrates the TDPs of SEE Undergraduate graduate and engineers should find the computer codes are useful in their EEIS design The exercise at the end of each chapter encourages students to identify EEI engineering problems in their own city and find creative solutions by applying the TDPs For more information please visit www.tang.fiu.edu

Technology for Large Space Systems ,1966 *Global Change Newsletter* ,1996 A study of global change IGBP of the International Council of Scientific Unions **Energy Research Abstracts** ,1993 **Government-wide Index to Federal Research & Development Reports** ,1967-05 **Government reports annual index** ,199? **Energy: a Continuing Bibliography with Indexes** ,1983 *Government Reports Announcements & Index* ,1996 **Energy** ,1981 *Fossil Energy Update* ,1982 **Earth Resources** ,1983 **Earth Resources, A Continuing Bibliography with Indexes** ,1984 **Engineering Education** ,1986

Unveiling the Magic of Words: A Review of "**Modeling Workshop Project 20physics Unit 7**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Modeling Workshop Project 20physics Unit 7**," a mesmerizing literary masterpiece penned by 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 to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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