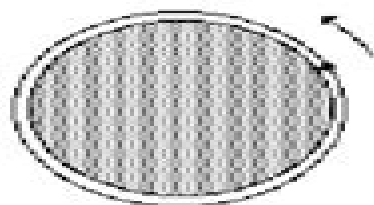


Unit 7: Worksheet 2

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)

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Resources in Education ,2001-10 **Advances in Software Engineering, Education, and e-Learning** Hamid R. Arabnia,Leonidas Deligiannidis,Fernando G. Tinetti,Quoc-Nam Tran,2021-09-09 This book presents the proceedings of four conferences The 16th International Conference on Frontiers in Education Computer Science and Computer Engineering STEM FECS 20 The 16th International Conference on Foundations of Computer Science FCS 20 The 18th International Conference on Software Engineering Research and Practice SERP 20 and The 19th International Conference on e Learning e Business Enterprise Information Systems Includes the tracks Computer Engineering STEM Foundations of Computer Science Software Engineering Research and e Learning e Business Enterprise Information Systems Features papers from FECS 20 FCS 20 SERP 20 EEE 20 including one open access chapter School Crafts and Projects ... Dennison-craft Course Dennison Manufacturing Company,1929 **Popular Mechanics** ,1945-04 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle **General Technical Report RMRS** ,1998 *Development of Input Data Layers for the FARSITE Fire Growth Model for the Selway-Bitterroot Wilderness Complex, USA* Robert E. Keane,Janice L. Garner,Kirsten M. Schmidt,Donald G. Long,James P. Menakis,Mark Arnold Finney,1998 Fuel and vegetation spatial data layers required by the spatially explicit fire growth model FARSITE were developed for all lands in and around the Selway Bitterroot Wilderness Area in Idaho and Montana Satellite imagery and terrain modeling were used to create the three base vegetation spatial data layers of potential vegetation cover type and structural stage Fire behavior fuel models and crown characteristics were assigned to combinations of base layer categories on these maps by local fire managers ecologists and existing data FARSITE fuels maps are used to simulate growth of prescribed natural fires in the wilderness area aiding managers in the planning and allocation of resources An extensive accuracy assessment of all maps indicated fuels layers are about 60 percent accurate This methodology was designed to be replicated for other areas Course and Curriculum Improvement Projects: Mathematics, Science, Social Sciences National Science Foundation (U.S.),1966 Resources in Education ,1986

Popular Science ,1929-10 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better *The Pivotal Role of Academic Librarians in Digital Learning* Melissa N. Mallon,2017-10-27 The budget constrained rapidly evolving climate of higher education and academic libraries makes it a necessity for academic librarians and administrators to communicate the value of their library to the university This book explains how to execute this critical task Authored by a library director and director of library liaison and instructional services who formerly served as a faculty member a librarian and a professional development instructor The

Pivotal Role of Academic Librarians in Digital Learning establishes the library's role in supporting student learning in an increasingly digital environment by exploring theoretical foundations and sharing concrete examples. The chapters focus on strategies and methods for demonstrating the academic library's value through strategic campus partnerships, creation of learning objects such as video tutorials, research instruction designed to facilitate student collaboration and participation in assessment of learning on campus. All of the topics addressed within a broad range of subject matter fall within the scope of learning in the digital age with particular emphasis on utilizing online learning environments including social media to teach students critical thinking and research skills as well as to position the academic library as an integral part of the modern learning environment. This book is a must read for academic librarians in instructional roles, teaching faculty, academic library administrators and managers who need to communicate the value of the library in relation to student learning and academic administrators who are obligated to demonstrate the important role of libraries in academic excellence. **Popular Science**

Monthly, 1928 End-User Computing: Concepts, Methodologies, Tools, and Applications Clarke, Steve, 2008-02-28. Covers the important concepts, methodologies, technologies, applications, social issues and emerging trends in this field. Provides researchers, managers and other professionals with the knowledge and tools they need to properly understand the role of end user computing in the modern organization. **Climate Change and Regional/Local Responses** Pallav Ray, Yuanzhi

Zhang, 2013-05-22. Understanding climate change requires analysis of its effects in specific contexts and the case studies in this volume offer examples of such issues. Its chapters cover tropical cyclones in East Asia, study of a fossil in Brazil's Araripe Basin and the fractal nature of band thickness in an iron formation of Canada's Northwest Territories. One chapter examines the presence of trace elements and palynomorphs in the sediments of a tropical urban pond. Examples of technologies used include RS/GIS to map lineaments for groundwater targeting and sustainable water resource management, the ALADIN numerical weather prediction model used to forecast weather and use of grids in numerical weather and climate models. Finally, one chapter models sea level rises resulting from ice sheets melting. **Environmental Burden of Disease**

Assessment Jacqueline MacDonald Gibson, Angela Brammer, Christopher Davidson, Tiina Folley, Frederic Launay, Jens Thomsen, 2013-02-12. This publication characterizes the environmental burden of disease in the United Arab Emirates (UAE) measured by the excess number of deaths and illnesses in the population due to exposure to environmental hazards. The robust methods used in this risk analysis can be applied to any country or region. This publication documents the systematic multi-step process used to identify environmental priorities and the detailed methods used to quantify the disease burden attributable to each risk. Based on the results of the burden of disease assessment, the publication summarizes the subsequent steps that are recommended to further reduce the burden of disease resulting from various environmental risk factors. Authors and Contributors. This book represents the synthesis of research carried out by a large interdisciplinary team from several institutions and multiple nations between June 2008 and June 2011. The lead authors are responsible for weaving

together the pieces prepared by the team Nonetheless this book would not have been possible without major contributions from each team member The list below shows contributors to each chapter Following this list are biographies of all of the authors and contributors Lead Authors Jacqueline MacDonald Gibson Frederic J P Launay Jens T W Thomsen Angela Brammer Christopher Davidson Additional Contributors by Chapter Chapter 2 Prioritizing Environmental Risks to Health Henry H Willis Aimee Curtright Gary Cecchine Zeinab S Farah Sandra A Geschwind Jianhui Hu Ying Li Melinda Moore Sarah Olmstead Hanine Salem Regina A Shih J Jason West Chapter 3 Assessing the Environmental Burden of Disease Method Overview Tiina Folley Elizabeth S Harder Mejs Hasan Chapter 4 Burden of Disease from Outdoor Air Pollution Ying Li Gavino Puggioni Prahlad Jat Mejs Hasan Marc Serre Kenneth G Sexton J Jason West Saravanan Arunachalam Uma Shankar William Vizuete Mohammed Zuber Farooqui Chapter 5 Burden of Disease from Indoor Air Pollution Chris B Trent Chapter 6 Burden of Disease from Occupational Exposures Tiina Folley Leena A Nylander French Chapter 7 Burden of Disease from Climate Change Richard N L Andrews Leslie Chinery Elizabeth S Harder J Jason West Chapter 8 Burden of Disease from Drinking Water Contamination Gregory W Characklis Joseph N LoBuglio Chapter 9 Burden of Disease from Coastal Water Pollution Gregory W Characklis Leigh Anne H Krometis Joseph N LoBuglio Chapter 10 Burden of Disease from Soil and Groundwater Contamination Chidsanuphong Chart asa Stephanie Soucheray Grell Chapter 11 Burden of Disease from Produce and Seafood Contamination Leigh Anne H Krometis Leslie Chinery

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