

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 Unit 7

Yan Bai



Modeling Workshop Project Unit 7:

Visioning and Engineering the Knowledge Society - A Web Science Perspective Miltiadis D. Lytras, Ernesto Damiani, John M. Carroll, Robert D. Tennyson, David Avison, Ambjörn Naeve, Adrian Dale, Paul Lefrere, Felix Tan, Janice Sipior, Gottfried Vossen, 2009-09-16 It is a great pleasure to share with you the Springer LNCS proceedings of the Second World Summit on the Knowledge Society WSKS 2009 organized by the Open search Society Ngo <http://www.openknowledge.society.org> and held in Samaria Hotel in the beautiful city of Chania in Crete Greece September 16-18 2009 The 2nd World Summit on the Knowledge Society WSKS 2009 was an international scientific event devoted to promoting dialogue on the main aspects of the knowledge society towards a better world for all The multidimensional economic and social crisis of the last couple of years has brought to the fore the need to discuss in depth new policies and strategies for a human centric developmental processes in the global context This annual summit brings together key stakeholders involved in the worldwide development of the knowledge society from academia industry and government including policy makers and active citizens to look at the impact and prospects of information technology and the knowledge based era it is creating on key facets of living working learning innovating and collaborating in today's hyper complex world The summit provides a distinct unique forum for cross disciplinary fertilization of research favoring the dissemination of research on new scientific ideas relevant to international research agendas such as the EU FP7 OECD or UNESCO We focus on the key aspects of a new sustainable deal for a bold response to the multidimensional crisis of our times

OOER '95 Object-Oriented and Entity-Relationship Modeling M. Papazoglou, 1995-11-23 This volume constitutes the refereed proceedings of the 14th International Conference on Object Oriented and Entity Relationship Modelling OOER 95 held in Gold Coast Australia in December 1995 The 36 papers presented together with an invited presentation by Gio Wiederhold were selected from a total of 120 submissions The papers are organized in sections on object design and modelling models and languages reverse engineering and schema transformation behavioral modelling non traditional modelling theoretical foundations business re engineering integrated approaches cooperative work modelling temporal data modelling federated systems design and industrial stream papers

Special Secondary Schools For The Mathematically Talented: An International Panorama Bruce R Vogeli, 2015-08-28 A review of 100 special schools for the mathematically talented students in twenty nations Appendices contain sample syllabi tests and documents

Energy Research Abstracts, 1993

Bringing Project-Based Learning to Life in Mathematics, K-12 Maggie Lee McHugh, 2023-05-04 Go beyond problem solving and performance tasks Bring project based learning to life Do you want your students to be more engaged in their mathematics lessons while also amplifying cultural relevancy and equity If so proceed to the next level of instruction with project based learning PBL This book provides the whole PBL game plan designed by an experienced award winning teacher and researcher Whether you want to start with small steps or you are ready for full implementation in your classroom project based learning experiences can lead to forever memories and

deeper learning for your students Answering the why what and how of embarking on the journey toward PBL readers will find Need to Know questions to open each chapter Student and educator vignettes to identify stumbling blocks and successes PBL Plus Tips that identify those small steps teachers can make to gradually shift toward PBL Your Turn prompts to actively connect ideas to your practice This approachable guide includes everything you need to move from tasks to memorable project based experiences that leverage student voice and choice and build a welcoming classroom culture Industrial Pollution Management and Control Girish Kumar,1993 On institutions nongovernmental organizations etc in India

Mathematical Modeling and Decision Analysis Mr. Rohit Manglik,2024-03-22 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels Database and Expert Systems Applications Roland R.

Wagner,1996-08-28 Content Description Includes bibliographical references and index **Ivanpah Solar Electric Generating System** ,2010 **Resources in Education** ,1997 *Aspects of Teaching Secondary Design and Technology* Gwyneth Owen-Jackson,2003-09-02 Beginning by outlining the national curriculum for design and technology Aspects of Teaching Secondary Design and Technology goes on to look at what design and technology is in the primary school at examination level and post 16 Vocational qualifications relevant to design and technology are also discussed There are chapters looking at the relationship between design and technology and the wider social and cultural context The development of cross curricular skills and value judgements are discussed as are sustainability and the role of the community in the teaching and learning of design and technology Together these articles comprise a sound guide to good classroom practice related to the requirements of the curriculum and rooted in the professional perspectives of experienced teachers

Tongass National Forest (N.F.), Sea Level Harvest Timber Sale D(2v),Dsum; Maps ,1999 **Commerce Business Daily** ,1997-12-31 **Research in Education** ,1974 **EPA Publications Bibliography Quarterly Abstract Bulletin** United States. Environmental Protection Agency,1999-04 EPA Publications Bibliography United States.

Environmental Protection Agency,1995 **Electric Consumption by Industrial Enterprises** Ikromjon U.

Rakhmonov,Vasiliy Ya. Ushakov,Foziljon A. Khoshimov,Numon N. Niyozov,Nurbek N. Kurbonov,Alexey V. Mytnikov,2024-08-02 This book comprises eleven chapters consistently highlighting key aspects of addressing the challenge of enhancing electricity consumption efficiency within various industrial sectors It delves into issues such as improving the accuracy of energy intensity calculations for industrial products estimating electricity consumption for internal needs and identifying key influencing factors The methods for determining standard values through multifactor analysis and cost minimization are presented Furthermore it examines potential avenues for electricity savings and methods for assessing their impact on the technological and organizational operating conditions of industrial enterprises The reduction of specific power

consumption through optimization of raw materials and semi finished products parameters is also explored This book is intended for engineering professionals and researchers in the field of industrial energy management as well as undergraduate and graduate students specializing in this area

Contemporary Mathematics in Context: A Unified Approach, Course 3, Part B, Student Edition McGraw Hill, 2002-09-10 A National Science Foundation NSF funded high school series for all students Contemporary Mathematics in Context engages students in investigation based multi day lessons organized around big ideas Important mathematical concepts are developed in relevant contexts by students in ways that make sense to them Courses 1 along with Courses 2 and 3 comprise a core curriculum that upgrades the mathematics experience for all your students Course 4 is designed for all college bound students Developed with funding from the National Science Foundation each course is the product of a four year research development and evaluation process involving thousands of students in schools across the country

Fossil Energy Update ,1982

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