

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 2006 Worksheets

American Mathematical Society

A red circular graphic with a gradient, appearing as a partial circle or a stylized 'C' shape, located to the right of the American Mathematical Society text.

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Teaching and Researching: Reading William Peter Grabe, Fredricka L. Stoller, 2013-11-26 Teaching and Researching Reading was first written to help language professionals understand the complex nature of reading Now in a thoroughly updated and improved second edition the book expands connections from research on reading to instructional practices and teacher initiated action research Offering an updated overview of reading theory it summarises key ideas and issues in first and second language contexts In addition to providing insightful research analyses Grabe and Stoller offer practical advice for practitioners and researchers including evidence based teaching ideas and a multi step iterative process for conducting meaningful action research on reading related topics The volume outlines 29 projects for teacher adaptation and use as well as numerous new or substantially expanded resource materials that can be used for both action research and classroom instruction Learning aids featured throughout the volume include key concept boxes and a glossary of key terms quote boxes highlighting critical issues in the field resource lists of relevant journals books and websites Fully revised throughout with a range of new exemplary L1 and L2 research studies and an entirely new chapter on the move from research implications to instructional applications this second edition of Teaching and Researching Listening is an invaluable resource for teacher trainers practicing teachers materials writers and researchers alike Software Process Modeling Silvia T. Acuna, Natalia Juristo, 2006-01-27 Software Process Modeling brings together experts to discuss relevant results in software process modeling and expresses their personal view of this field This book focuses on new aspects of software process modeling Specifically it deals with socio technological aspects process modeling for new development types open source software dependability applications etc and organization change management The computer audience is placing growing demands on the software industry today Consumers are looking for more complex products that are at the same time easier to use Software developer organizations are expected to produce higher quality products and deliver them to the public faster In so doing however globally distributed development teams have to cope with understaffing and changing technologies The challenges for the software industry are apparently mounting Over the years a variety of software process models have been designed to structure describe and prescribe the software systems construction process Most recently software process modeling is increasingly dealing with new challenges raised by the tests that the software industry has to stand Software Process Modeling is designed for a professional audience of researchers and practitioners in industry The book is also suitable for graduate level students in computer science Practical Microsimulation Modelling Cathal O'Donoghue, 2021 This book brings together a description and examples of the main methods used in microsimulation modelling used in the field of income distribution analysis It is structured to develop and use the different types of models used in the field with a focus on household targeted policy SR 28 (Sunset Highway), Eastside Corridor Project, 2006 **Promoting Active Learning through the Flipped Classroom Model** Keengwe, Jared, 2014-01-31 This book focuses on an in depth

assessment on strategies and instructional design practices appropriate for the flipped classroom model highlighting the benefits shortcoming perceptions and academic results of the flipped classroom model Provided by publisher

Investigating Complex Phenomena: Bridging between Systems Thinking and Modeling in Science Education

Tom Bielik, Moritz Krell, Laura Zangori, Orit Ben Zvi Assaraf, 2023-11-15 Understanding the complexity of the natural world and making sense of phenomena is one of the main goals of science and science education When investigating complex phenomena such as climate change or pandemic outbreaks students are expected to engage in systems thinking by considering the boundaries of the investigated system identifying the relevant components and their interactions and exploring system attributes such as hierarchical organization dynamicity feedback loops and emergence Scientific models are tools that support students reasoning and understanding of complex systems and students are expected to develop their modeling competence and to engage in the modeling process by constructing testing revising and using models to explain and predict phenomena Computational modeling tools for example provide students with the opportunity to explore big data run simulations and investigate complex systems Therefore both systems thinking and modeling approaches are important for science education when investigating complex phenomena *Model-Driven Engineering Languages and Systems* Ana Moreira, Bernhard Schätz, Jeff Gray, Antonio Vallecillo, Peter Clarke, 2013-09-20 This book constitutes the refereed proceedings of the 16th International Conference on Model Driven Engineering Languages and Systems MODELS 2013 held in Miami FL USA in September October 2013 The 47 full papers presented in this volume were carefully reviewed and selected from a total of 180 submissions They are organized in topical sections named tool support dependability comprehensibility testing evolution verification product lines semantics domain specific modeling languages models RT design and architecture model transformation model analysis and system synthesis Skills Based Health Education - Book Only Mary

Connolly, 2011-01-06 Skills Based Health Education provides pre service and practicing teachers with the pedagogical foundation and tools to develop a comprehensive PreK 12 health education program using the National Health Education Standards Rather than solely focusing on teaching content an approach which can prove ineffective in developing healthy behaviors readers learn to teach the content and skills their students need to be healthy and prepared for the 21st century The book addresses each one of the national standards with specific directions regarding how to apply the standard and performance indicators to plan and implement performance tasks that target instruction to a student need Readers are shown how to establish student need select content and skill performance indicators to meet the need and plan and implement assessment and instruction PowerPoint Presentations and a TestBank are available as free Instructor Downloads Companion website includes lessons units and other support materials to enhance teaching and learning **Teaching about the Future** P. Bishop, A. Hines, 2012-06-26 The faculty at the University of Houston s program in Futures Studies share their comprehensive integrated approach to preparing foresight professionals and assisting others doing foresight

projects Provides an essential guide to developing classes on the future or even establishing whole degree programs

Abstracts of Papers Presented to the American Mathematical Society American Mathematical Society,2007

From Computer Literacy to Informatics Fundamentals Roland Mittermeir,2005-03-23 This book constitutes the refereed proceedings of the International Conference on Informatics in Secondary Schools Evolution and Perspectives ISSEP 2005 held in Klagenfurt Austria in March April 2005 The 21 revised full papers presented together with an introduction were carefully reviewed and selected for inclusion in the book A broad variety of topics related to teaching informatics in secondary schools is addressed ranging from national experience reports to paedagogical and methodological issues

Airport Climate Adaptation and Resilience Chris Baglin,2012 Reviews the range of risks to airports from projected climate change and the emerging approaches for handling them based on surveys of airports in the U S Toronto and the U K

Electronic Records in the Manuscript Repository Elizabeth H. Dow,2009-04-13 Electronic Records in the Manuscript Repository defines the problems related to electronic records and digital documents describes the steps the curator should take to manage those electronic records and digital documents and suggests ways to learn the specific skills and perspectives needed to do the job well It provides an introduction to vocabulary basic concepts and best practices to date by collecting and contextualizing data from several real world projects and it contains almost 30 pages of references to resources that the curator can consult for information on specific topics Dow starts with a review of archival concepts including a look at archival practices and then discusses the problems created by electronic materials in that context as well as the research in progress to tackle these problems Creative Teaching in Mathematics ,2006 Thinking Visually

Stephen K. Reed,2021-09-30 Thinking Visually documents the many ways pictures visual images and spatial metaphors influence our thinking The book discusses recent empirical theoretical and applied contributions that support the view that visual thinking occurs not only where we expect to find it but also where we do not Much of comprehending language for instance depends on visual simulations of words or on spatial metaphors that provide a foundation for conceptual understanding This edition has been fully updated throughout and features new coverage of a range of topical and fascinating areas of research including aesthetics visual narratives communicating health risks dreams clinical imagery mathematical games and the influence of action on perception It also features a new chapter on Mixed Reality to showcase the many exciting developments in this area The broad coverage colorful figures and research discoveries provide a solid foundation for understanding visual thinking across a wide spectrum of activities It will be an essential read for all students and researchers interested in Visual Thinking **Computer Safety, Reliability, and Security** Barbara Gallina,Amund

Skavhaug,Friedemann Bitsch,2018-09-03 This book constitutes the refereed proceedings of the 37th International Conference on Computer Safety Reliability and Security SAFECOMP 2018 held in Vster s Sweden in September 2018 The 19 revised full papers and 1 short paper presented together with three abstracts of keynotes were carefully reviewed and

selected from 63 submissions The papers are organized in topical sections on Automotive Safety Standards and Cross domain Reuse Potential Autonomous Driving and Safety Analysis Verification Multi concern Assurance Fault Tolerance and Safety and Security Risk

Exploring the Evidence Wendy G. Troxel, Marc Cutright, 2008

Handbook of Water Harvesting and Conservation Saeid Eslamian, Faezeh Eslamian, 2021-04-09 Water harvesting is gaining more and more recognition as the sustainable and resilient alternative to other water supply options It is economically viable socially compatible and environmentally friendly Water harvesting has proven to be a robust solution to overcome or reduce water shortages all over the world To apply this in a sustainable and effective way it is important to understand exactly where it can be applied to make full use of its potential The Handbook of Water Harvesting and Conservation Case Studies and Application Examples is the most comprehensive up to date and applied casebook on water harvesting and conservation yet published The editors bring together the many perspectives into a synthesis that is both academically based and practical in its potential applications The Handbook of Water Harvesting and Conservation Case Studies and Application Examples will be an important tool for education research and technical works in the soil water and watershed management area and will be highly useful for drought strategy planning flood management and adaptation to climate change in all urban agricultural forest rangeland areas

The Ecology of Learning John Blewitt, 2006 A key starting point for understanding and achieving sustainability are our experiences of everyday life the meanings and the connections we develop and the learning and action these experiences engender This book explores how learning throughout and across life is and may become an integral aspect of the process of sustainable development It addresses the need for life long learning that is learning that occurs in various aspects of our lives including work families home community groups or any non traditional school or learning environments to seriously engage with sustainability issues Coverage includes the relationship between learning and sustainability sustainability and everyday life environmental mediascapes public space and landscapes learning networks and community action sustainability learning and leisure work and the need to reshape our understanding of a learning society The breadth is impressive with an approachable and easy to read engagement with theoretical approaches to lifelong learning and sustainability and a vast range of evidence and case studies drawn from dozens of contexts in the UK Europe the USA and Canada

Forest Appreciation Week Writing Contest , 2007

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