

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 Unit 4

Rene van Leuken, Gilles Sicard



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compatible with the needs of the construction industry

Trends in Teaching and Learning of Mathematical

Modelling Gabriele Kaiser, Werner Blum, Rita Borromeo Ferri, Gloria Stillman, 2011-06-23 This book contains suggestions for and reflections on the teaching learning and assessing of mathematical modelling and applications in a rapidly changing world including teaching and learning environments It addresses all levels of education from universities and technical colleges to secondary and primary schools Sponsored by the International Community of Teachers of Mathematical Modelling and Applications ICTMA it reflects recent ideas and methods contributed by specialists from 30 countries in Africa the Americas Asia Australia and Europe Inspired by contributions to the Fourteenth Conference on the Teaching of Mathematical Modelling and Applications ICTMA14 in Hamburg 2009 the book describes the latest trends in the teaching and learning of mathematical modelling at school and university including teacher education The broad and versatile range of topics will stress the international state of the art on the following issues Theoretical reflections on the teaching and learning of modelling Modelling competencies Cognitive perspectives on modelling Modelling examples for all educational levels Practice of modelling in school and at university level Practices in Engineering and Applications

Software Engineering for Science Jeffrey C. Carver, Neil P. Chue Hong, George K. Thiruvathukal, 2016-11-03 Software Engineering for Science provides an in depth collection of peer reviewed chapters that describe experiences with applying software engineering practices to the development of scientific software It provides a better understanding of how software engineering is and should be practiced and which software engineering practices are effective for scientific software The book starts with a detailed overview of the Scientific Software Lifecycle and a general overview of the scientific software development process It highlights key issues commonly arising during scientific software development as well as solutions to these problems The second part of the book provides examples of the use of testing in scientific software development including key issues and challenges The chapters then describe solutions and case studies aimed at applying testing to scientific software development efforts The final part of the book provides examples of applying software engineering techniques to scientific software including not only computational modeling but also software for data management and analysis The authors describe their experiences and lessons learned from developing complex scientific software in different domains About the Editors Jeffrey Carver is an Associate Professor in the Department of Computer Science at the University of Alabama He is one of the primary organizers of the workshop series on Software Engineering for Science <http://www.SE4Science.org> workshops Neil P Chue Hong is Director of the Software Sustainability Institute at the University of Edinburgh His research interests include barriers and incentives in research software ecosystems and the role of software as a research object George K Thiruvathukal is Professor of Computer Science at Loyola University Chicago and Visiting Faculty at Argonne National Laboratory His current research is focused on software metrics in open source mathematical and scientific software

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Ashley National Forest (N.F.), South Unit Oil and Gas Development Project, 2010
Embedded Computer Systems: Architectures, Modeling, and Simulation Alex Orailoglu, Marc Reichenbach, Matthias Jung, 2022-08-13 This book constitutes the proceedings of the 22st International Conference on Embedded Computer Systems Architectures Modeling and Simulation SAMOS 2021 which took place in July 2022 in Samos Greece The 21 full papers presented in this volume were carefully reviewed and selected from 44 submissions The papers are organized in topics as follows High level synthesis memory systems processor architecture embedded software systems and beyond deep learning optimization extra functional property estimation innovative architectures and tools for security european research projects on digital systems services and platforms

Prospectus 2006 Federal Polytechnic, Ado-Ekiti, 2006 Atlantic Rim Natural Gas Field Development Project, 2006

Residential Location Choice Francesca Pagliara, John Preston, David Simmonds, 2010-08-12 The effective planning of residential location choices is one of the great challenges of contemporary societies and requires forecasting capabilities and the consideration of complex interdependencies which can only be handled by complex computer models This book presents a range of approaches used to model residential locations within the context of developing land use and transport models These approaches illustrate the range of choices that modellers have to make in order to represent residential choice behaviour The models presented in this book represent the state of the art and are valuable both as key building blocks for general urban models and as representative examples of complexity science

Scientific Articles Translation Iván Soria Solís, 2001-01-15 **Upper Truckee River Restoration and Golf Course Reconfiguration Project**, 2011

Stream and Watershed Restoration Philip Roni, Tim Beechie, 2012-09-18 With 2 billion spent annually on stream restoration worldwide there is a pressing need for guidance in this area but until now there was no comprehensive text on the subject Filling that void this unique text covers both new and existing information following a stepwise approach on theory planning implementation and evaluation methods for the restoration of stream habitats Comprehensively illustrated with case studies from around the world Stream and Watershed Restoration provides a systematic approach to restoration programs suitable for graduate and upper level undergraduate courses on stream or

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Computational Intelligence in Business and Economics Anna M. Gil-Lafuente, Jos  M. Merig , 2010 This book provides some of the most recent developments in Computational Intelligence applied to business and economics presented at the MS 10 International Conference Barcelona 15-17 July 2010 It presents several new theoretical advancements and a wide range of applications in different business and economic areas including accounting finance management marketing sports tourism economics and politics and also some applications related with engineering and modeling and simulation This book is very useful for researchers and graduate students interested in pursuing research in business and economics with an orientation to modern techniques for dealing with uncertainty such as those related with modeling and simulation and computational intelligence

Accounting for Climate Change Daniel Lieberman, Matthias Jonas, Zbigniew Nahorski, Sten Nilsson, 2010-05-27 Uncertainty analysis is a key component of national GHG inventory analyses The issues that are raised by the authors in this volume and the role that uncertainty analysis plays in many of their arguments and or proposals highlight the importance of such efforts Topics include bottom up versus top down emission inventory approaches compliance and verification issues signal detection and analysis techniques compliance with the Kyoto Protocol and the role of uncertainty in emissions trading schemes

Official Gazette of the United States Patent and Trademark Office, 2006

Scientific and Technical Aerospace Reports, 1980

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Nierenberg's primary research interests are treatment resistant depression, bipolar depression, and the longitudinal course of mood disorders. Bipolar depression: a major unsolved challenge - PMC by RJ Baldessarini · 2020 · Cited by 151 —

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