

## Unit 7: Worksheet 2

1. Calculate the gravitational field strength on the moon, which has a radius of  $1.74 \times 10^6$  m, and a mass of  $7.36 \times 10^{22}$  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 V

**Fazlay S. Faruque**



## **Modeling Workshop Project 2006 Unit V:**

Dynamics in Logistics Michael Freitag, Herbert Kotzab, Jürgen Pannek, 2016-09-15 These proceedings contain research papers presented at the 5th International Conference on Dynamics in Logistics held in Bremen Germany February 2016 The conference is concerned with dynamic aspects of logistic processes and networks The spectrum of topics reaches from modeling planning and control of processes over supply chain management and maritime logistics to innovative technologies and robotic applications for cyber physical production and logistic systems The growing dynamic confronts the area of logistics with completely new challenges it must become possible to describe identify and analyze the process changes Moreover logistic processes and networks must be redevise to be rapidly and flexibly adaptable to continuously changing conditions The book primarily addresses researchers and practitioners from the field of industrial engineering and logistics but it may also be beneficial for graduate students

*Conceptual Modeling - ER 2008* Qing Li, Stefano Spaccapietra, Eric Yu, Antoni Olivé, 2008-10-13 Conceptual modeling has long been recognized as the primary means to enable software development in information systems and data engineering Conceptual modeling provides languages methods and tools to understand and represent the application domain to elicit conceptualize and formalize system requirements and user needs to communicate systems designs to all stakeholders and to formally verify and validate systems design on high levels of abstraction The International Conference on Conceptual Modeling provides a premiere forum for presenting and discussing current research and applications in which the major emphasis is on conceptual modeling Topics of interest span the entire spectrum of conceptual modeling including research and practice in areas such as theories of concepts and ontologies underlying conceptual modeling methods and tools for developing and communicating conceptual models and techniques for transforming conceptual models into effective implementations The scientific program of ER 2008 featured several activities running in parallel The core activity was the presentation of the 33 research papers published in this volume which were selected by a large Program Committee PC Co chaired by Qing Li Stefano Spaccapietra and Eric Yu We thank the PC Co chairs the PC members and the additional referees for the hard work done often within a short time Thanks are also due to Moira Norrie from ETH Zurich Oscar Pastor from the Universitat Politècnica de València and Amit Sheth from the Wright State University for accepting our invitation to present keynotes

**7th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS'09)** Yves Demazeau, Juan Pavón, Juan Manuel Corchado Rodríguez, Javier Bajo, 2009-03-08 PAAMS the International Conference on Practical Applications of Agents and Multi Agent Systems is an evolution of the International Workshop on Practical Applications of Agents and Multi Agent Systems PAAMS is an international yearly tribune to present to discuss and to disseminate the latest developments and the most important outcomes related to real world applications It provides a unique opportunity to bring multi disciplinary experts academics and practitioners together to exchange their experience in the development of Agents and Multi Agent Systems This volume

presents the papers that have been accepted for the 2009 edition These articles capture the most innovative results and this year s trends Assisted Cognition E Commerce Grid Computing Human Modelling Information Systems Knowledge Management Agent Based Simulation Software Development Transports Trust and Security Each paper has been reviewed by three different reviewers from an international committee composed of 64 members from 20 different countries From the 92 submissions received 35 were selected for full presentation at the conference and 26 were accepted as posters

Towards Marine Ecosystem-based Management in the Wider Caribbean Lucia Fanning,Robin Mahon,Patrick McConney,2011 An approach that encompasses the human and natural dimensions of ecosystems is one that the Wider Caribbean Region knows it must adopt and implement in order to ensure the sustainable use of the region s shared marine resources This volume contributes towards that vision bringing together the collective knowledge and experience of scholars and practitioners within the Wider Caribbean to begin the process of assembling a road map towards marine ecosystem based management EBM for the region It also serves a broader purpose of providing stakeholders and policy actors in each of the world s sixty four Large Marine Ecosystems with a comparative example of the challenges and information needs required to implement principled ocean governance generally and marine EBM in particular at multiple levels Additionally the volume serves to supplement the training of graduate level students in the marine sciences by enhancing interdisciplinary understanding of challenges in implementing marine EBM

*Guide to Advanced Empirical Software Engineering* Forrest Shull,Janice Singer,Dag I. K. Sjøberg,2007-11-21 Empirical studies have become an important part of software engineering research and practice Ten years ago it was rare to see a conference or journal article about a software development tool or process that had empirical data to back up the claims Today in contrast it is becoming more and more common that software engineering conferences and journals are not only publishing but eliciting articles that describe a study or evaluation Moreover a very successful conference International Symposium on Empirical Software Engineering and Measurement journal Empirical Software Engineering and organization International Software Engineering Research Network have all evolved in the last 10 years that focus solely on this area As a further illustration of the growth of empirical software engineering a search in the articles of 10 software engineering journals showed that the proportion of articles that used the term empirical software engineering d bled from about 6% in 1997 to about 12% in 2006 While empirical software engineering has seen such substantial growth there is not yet a reference book that describes advanced techniques for running studies and their application This book aims to fill that gap The chapters are written by some of the top international empirical software engineering researchers and focus on the practical knowledge necessary for conducting reporting and using empirical methods in software engineering The book is intended to serve as a standard reference

**Transactions on Aspect-Oriented Software Development VI** Shmuel Katz,Harold Ossher,2009-10-26 work for small problems but it introduces signi cant accidental complexities when tackling larger problems

Not that the real challenge here is not how to design the system to take a particular aspect into account there is significant design know how in industry on this and it is often captured in the form of design patterns Taking into account more than one aspect can be a little harder but many large scale successful projects in industry provide some evidence that engineers know how different concerns should be handled The real challenge is reducing the effort that the engineer has to expend when grappling with many inter dependent concerns For example in a product line context when an engineer wants to replace a variant of an aspect used in a system she should be able to do this cheaply quickly and safely Manually weaving every aspect is not an option Unlike many models used in the sciences models in software and in linguistics have the same nature as the things they model In software this provides an opportunity to automatically derive software from its model that is to automate the weaving process This requires models to be formal and the weaving process be described as a program i.e. an executable meta model manipulating models to produce a detailed design The detailed design produced by the weaving process can ultimately be transformed to code or at least test suites

*Economic Geology and the Bulletin of the Society of Economic Geologists*, 2008

**Field Geology Education** Steven J. Whitmeyer, David W. Mogk, Eric J. Pyle, 2009-01-01 Field instruction has traditionally been at the core of the geoscience curriculum The field experience has been integral to the professional development of future geoscientists and is particularly important as it applies to student understanding of spatial temporal and complex relations in the Earth system As important as field experiences have been to geosciences education and the training of geoscientists the current situation calls for discipline wide reflection of the role of field experiences in the geoscience curriculum in light of practical and logistical challenges evolution in employment opportunities for geoscientists and changing emphases in the geoscience curriculum This volume seeks to broaden participation in field instruction by showcasing diverse approaches to teaching in the field across the many geodisciplines encompassed by GSA

books google [Proceedings and Abstracts for the ... Annual Institute on Lake Superior Geology](#), 2007

*Geospatial Technology for Human Well-Being and Health* Fazlay S. Faruque, 2022-03-21 Over the last thirty years or so there have been tremendous advancements in the area of geospatial health however somehow two aspects have not received as much attention as they should have received These are a limitations of different spatial analytical tools and b progress in making geospatial environmental exposure data available for advanced health science research and for medical practice This edited volume addresses those two less explored areas of geospatial health with augmented discussions on the theories methodologies and limitations of contemporary geospatial technologies in a wide range of applications related to human well being and health In 20 chapters readers are presented with an up to date assessment of geospatial technologies with an emphasis on understanding general geospatial principles and methodologies that are often overlooked in the research literature As a result this book will be of interest to both newcomers and experts in geospatial analysis and will appeal to students and researchers engaged in studying human well being and health Chapters are presenting new concepts new

analytical methods and contemporary applications within the framework of geospatial applications in human well being and health The topics addressed by the various chapter authors include analytical approaches newer areas of geospatial health application introduction to unique resources geospatial modeling and environmental pollution assessments for air water and soil Although geospatial experts are expected to be the primary readers this book is designed in such a way so that the public health professionals environmental health scientists and clinicians also find it useful with or without any familiarity with geospatial analysis Economic Geology, 2008 *Chinese Energy Markets* Armelle Guizot, 2007-12-15 This book reviews the supply and demand market of China's natural energy and commodities resources It demonstrates that China's emerging economy will require more and more resources in the future Strategic alternatives to the exponential demand are revealed and the impact of emerging demand on global economies is discussed Abstracts of Papers Presented to the American Mathematical Society American Mathematical Society, 2007 Proceedings of the ... International Symposium on Remote Sensing of Environment, 2009 **Geoinformatics** A. Krishna Sinha, 2006 The science of informatics in the broadest sense has been several thousands of years in the making With the recent emergence of large storage devices and high speed processing of data it has become possible to organize vast amounts of data as digital products with ontologic tags and concepts for smart queries Coupling this computational capability with earth science data defines the emerging field of geoinformatics Since the science of geology was established several centuries ago observations led to conclusions that were integrative in concept and clearly had profound implications for the birth of geology As disciplinary information about Earth becomes more voluminous the use of geoinformatics will lead to integrative science based discoveries of new knowledge about planetary systems Twenty one research papers co authored by 96 researchers from both earth and computer sciences provide the first ever organized presentation of the science of informatics as it relates to geology Readers will readily recognize the vast intellectual content represented by these papers as they seek to address the core research goals of geoinformatics Publisher's website *SMC 08* Stefan Weinzierl, 2008 *Water Quality & Treatment: A Handbook on Drinking Water* American Water Works Association, James K. Edzwald, 2010-12-06 The definitive water quality and treatment resource fully revised and updated Comprehensive current and written by leading experts Water Quality Treatment A Handbook on Drinking Water Sixth Edition covers state of the art technologies and methods for water treatment and quality control Significant revisions and new material in this edition reflect the latest advances and critical topics in water supply and treatment Presented by the American Water Works Association this is the leading source of authoritative information on drinking water quality and treatment NEW CHAPTERS ON Chemical principles source water composition and watershed protection Natural treatment systems Water reuse for drinking water augmentation Ultraviolet light processes Formation and control of disinfection by products DETAILED COVERAGE OF Drinking water standards regulations goals and health effects Hydraulic characteristics of water treatment reactors Gas liquid processes and chemical oxidation Coagulation

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