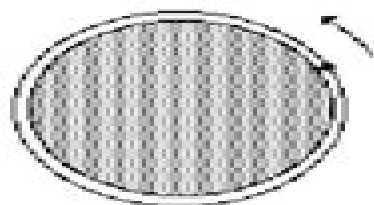


## Unit 7: Worksheet 2

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 20unit 4

**G Thomas**



## **Modeling Workshop Project 20unit 4:**

Intelligent Distributed Computing V F.M.T. Brazier, Kees Nieuwenhuis, Gregor Pavlin, Martijn Warnier, Costin Badica, 2011-10-08 This book represents the combined peer reviewed proceedings of the Fifth International Symposium on Intelligent Distributed Computing IDC 2011 and of the Third International Workshop on Multi Agent Systems Technology and Semantics MASTS 2011 Both events were held in Delft The Netherlands during October 5 7 2011 The 33 contributions published in this book address many topics related to theory and applications of intelligent distributed computing and multi agent systems including adaptive and autonomous distributed systems agent programming ambient assisted living systems business process modeling and verification cloud computing coalition formation decision support systems distributed optimization and constraint satisfaction gesture recognition intelligent energy management in WSNs intelligent logistics machine learning mobile agents parallel and distributed computational intelligence parallel evolutionary computing trust metrics and security scheduling in distributed heterogenous computing environments semantic Web service composition social simulation and software agents for WSNs     GIS World ,1991     Earth's Surface: Teacher's ed ,2005     **Records of the Geological Survey of India** Geological Survey of India, 1996 1867 includes the Annual report of the Geological survey of India     **The Architects' Journal** ,2006-10

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