

UNIT IV: Worksheet 3

Fig 2009

For each of the problems below, carefully draw a free diagram of the system before starting.

1. Determine the unknown variables for each A and each B.

Case A:

Case B:

$\Sigma F_1 = 0$

$\Sigma F_2 = 0$

$T_1 = T_2, T_2 = F_{g2}$

$F_1 = F_2 = 5$

$2F_1 = 41 \quad F_1 = \frac{41}{2}$

2. Determine the unknown variables for each system. Before starting draw the free diagram.

$\Sigma F_1 = 0$

$\Sigma F_2 = 0$

$T_1 = T_2 = F_{g2}$

$F_1 = 4(9.8)$

$39.2N$

3. Draw a free diagram from the cable below. Before starting draw the free diagram.

$\Sigma F_1 = 0$

$\Sigma F_2 = 0$

$T_1 = T_2 = F_{g1}$

$F_1 = 25$

$F_2 = 25$

4. Repeat the problem above, but this time draw the free diagram.

$\Sigma F_1 = 0$

$\Sigma F_2 = 0$

$T_1 = T_2 = F_{g1}$

$F_1 = 25$

$F_2 = 25$

$F_1 = \frac{125}{\sin \theta} = 142.972$

Modeling Workshop Project 20unit 4

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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 heterogeneous computing environments semantic Web service composition social simulation and software agents for WSNs **San Diego Magazine** ,1985-03 **The Energy Consumer** , **GIS World** ,1991 *Professional Builder & Apartment Business* ,1975 Issues for Jan 1973 May 1977 include section Industrialized building **Popular Mechanics** ,1976-10 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it's practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle

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