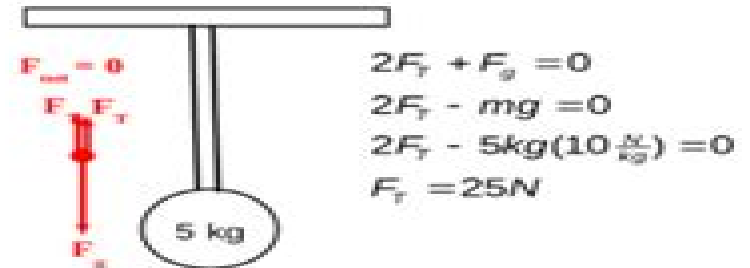
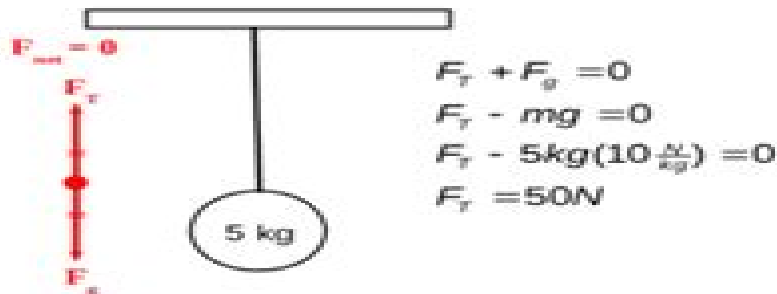


Free Particle Model Worksheet 3: Quantitative Force Analysis & Vector Components

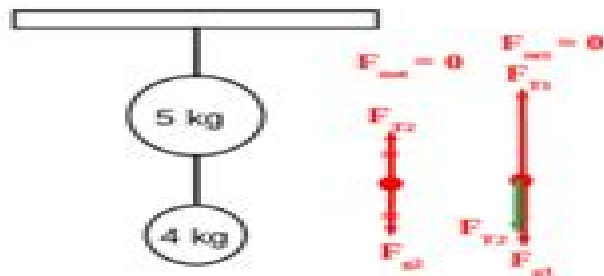
Up and to the right will be positive for all problems.

1. Determine the tension in each cable below. Draw a force diagram for the system before solving the problem.

Case A - ball suspended on one cable Case B - ball suspended by two cables



2. Determine tension in each cable.



Bottom sphere:

$$F_{T2} + F_{g2} = 0$$

$$F_{T2} - mg = 0$$

$$F_{T2} - 4\text{kg}(10 \frac{\text{N}}{\text{kg}}) = 0$$

$$F_{T2} = 40\text{N}$$

Top sphere:

$$F_{T1} + F_{g1} + F_{T2} = 0$$

$$F_{T1} - mg - 40\text{N} = 0$$

$$F_{T1} - 5\text{kg}(10 \frac{\text{N}}{\text{kg}}) - 40\text{N} = 0$$

$$F_{T1} = 90\text{N}$$

3. Find the horizontal and vertical components of the tension in the fishing line. Show your work.



$$\cos 55^\circ = \frac{T_x}{38\text{N}}$$

$$T_x = \cos 55^\circ (38\text{N}) = 22\text{N}$$

$$\sin 55^\circ = \frac{T_y}{38\text{N}}$$

$$T_y = \sin 55^\circ (38\text{N}) = 31\text{N}$$

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Chromatography Jack Cazes, 2009-10-12 Thoroughly revised and expanded this third edition offers illustrative tables and figures to clarify technical points in the articles and provides a valuable reader friendly reference for all those who employ chromatographic methods for analysis of complex mixtures of substances An authoritative source of information this introductory guide to specific chromatographic techniques and theory discusses the relevant science and technology offering key references for analyzing specific chemicals and applications in industry and focusing on emerging technologies and uses

Micro Total Analysis Systems 2000 Albert van den Berg, Wouter Olthuis, Piet Bergveld, 2013-11-11 After earlier meetings in Enschede NL 1994 Basel CH 1996 and Banff CDN 1998 muTAS 2000 is the fourth international symposium on the subject of miniaturized techniques methods devices and systems for bio chemical analysis and synthesis Initially started as a minor sub topic in the large field of Micro System Technology MST or MEMS the field of muTAS is currently generally considered as one of the most important application areas of MST which is reflected in the still rapidly growing research development and above all commercialization activities Apart from further development and refining of the research on electrophoretic separation electrokinetically driven flow systems cell manipulation and analysis miniaturized flow systems and study of microfluidics the important new area of centrifugal microfluidics on CD devices receives broad attention On the other hand new innovations range from topics as exotic as photoacoustic detection in microreactors and molecular emission detection on a chip to very high pressure microreactor devices and shear flow driven separations The enormous speed of the developments in this field is illustrated by the large number of new start up companies some of them based upon technologies that were not even published at the former meeting in Banff in 1998 All this illustrates the great excitement that continues to govern this field in which generation and analysis of bio chemical information using microtechnology becomes more and more entangled in what one could call micro bio chemical systems This volume contains the proceedings of the fourth international symposium on Micro Total Analysis Systems muTAS 2000 held 14-18 May 2000 at the University of Twente in Enschede The Netherlands and organised by the MESA Research Institute Cutting edge research of all invited and contributed papers presented by the world's leading TAS groups provide the newest state of the art of this electrifying multidisciplinary field Sedimentation Velocity Analytical Ultracentrifugation Peter Schuck, Huaying Zhao, 2017-09-22 Analytical ultracentrifugation is one of the most powerful solution techniques for the study of macromolecular interactions to define the number and stoichiometry of complexes formed and to measure affinities ranging from very strong to very weak

and repulsive Building on the data analysis tools described in the volume Sedimentation Velocity Analytical Ultracentrifugation Discrete Species and Size Distributions of Macromolecules and Particles and the experimental and instrumental aspects in the first volume Basic Principles of Analytical Ultracentrifugation the present volume Sedimentation Velocity Analytical Ultracentrifugation Interacting Systems is devoted to the theory and practical data analysis of dynamically coupled sedimentation processes This volume is designed to fill a gap in biophysical methodology to provide a framework that builds on the fundamentals of the highly developed traditional methods of analytical ultracentrifugation updated with current methodology and from a viewpoint of modern applications It will be an invaluable resource for researchers and graduate students interested in the application of analytical ultracentrifugation in the study of interacting systems such as biological macromolecules multi protein complexes polymers or nanoparticles Mathematical Models and Their Analysis Frederick Y. M. Wan, 2018-03-20 A great deal can be learned through modeling and mathematical analysis about real life phenomena even before numerical simulations are used to accurately portray the specific configuration of a situation Scientific computing also becomes more effective and efficient if it is preceded by some preliminary analysis These important advantages of mathematical modeling are demonstrated by models of historical importance in an easily understandable way The organization of Mathematical Models and Their Analysis groups models by the issues that need to be addressed about the phenomena The new approach shows how mathematics effective for one modeled phenomenon can be used to analyze another unrelated problem For instance the mathematics of differential equations useful in understanding the classical physics of planetary models fluid motion and heat conduction is also applicable to the seemingly unrelated phenomena of traffic flow and congestion offshore sovereignty and regulation of overfishing and deforestation The formulation and in depth analysis of these and other models on modern social issues such as the management of exhaustible and renewable resources in response to consumption demands and economic growth are of increasing concern to students and researchers of our time The modeling of current social issues typically starts with a simple but meaningful model that may not capture all the important elements of the phenomenon Predictions extracted from such a model may be informative but not compatible with all known observations so the model may require improvements The cycle of model formulation analysis interpretation and assessment is made explicit for the modeler to repeat until a model is validated by consistency with all known facts

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