

1. What is the distance between a 128 kg object and a 136 kg object if the gravitational force of attraction between them is 6.582×10^{-10} N?

$$6.582 \times 10^{-10} = \frac{G(128)(136)}{r^2}$$

$$r^2 = \frac{G(128)(136)}{6.582 \times 10^{-10}}$$

$$r^2 = 1764.07$$

$$r = 42 \text{ m}$$

2. The force of gravity between two objects is 1200 N when the objects are 60 m apart. Find the force of gravity between the objects when they are 480 m apart.

Inverse square law:

Objects further apart, $F_g \downarrow$

$480 \div 60 = 8 \times$ further apart, so F_g is $8^2 = 64 \times$ smaller

$$1200 \div 64 = 18.8 \text{ N}$$

3. Two students are on a skateboards and push away from each other. A 48 kg student accelerates away at 2.6 m/s^2 . Find the acceleration of the other student if their mass is 32 kg. Action-reaction forces

$$F_{\text{net}} = ma$$

$$F_{\text{net}} = 48(2.6)$$

$$F_{\text{net}} = 124.8 \text{ N}$$

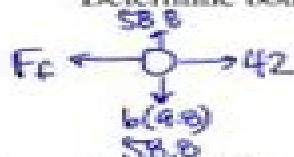
F_{net} is the same
for both students

$$F_{\text{net}} = ma$$

$$124.8 = 32a$$

$$a = 3.9 \text{ m/s}^2$$

4. A 42.0 N force is applied to a 6.00 kg block but it only accelerates at 5.50 m/s^2 . Determine both the force and the coefficient of friction.



$$F_{\text{net}} = ma$$

$$42 - F_f = 6(5.5)$$

$$42 - F_f = 33$$

$$F_f = 9.0 \text{ N}$$

$$F_f = \mu F_n$$

$$9.0 = \mu(58.8)$$

$$\mu = 0.153$$

5. A go-cart, traveling at 65 km/h , skids to a stop. If the coefficient of friction between the tires and the asphalt is 0.59, how far does the go-cart skid?



no forwards
force!

$$F_{\text{net}} = ma$$

$$F_f = ma$$

$$\mu F_n = ma$$

$$\mu mg = ma$$

$$\mu g = a$$

$$0.59(9.8) = a$$

$$a = 5.782$$

$$v_i = 18.06$$

$$v_f = 0$$

$$d = ?$$

$$a = -5.782$$

$$t = x$$

$$v_f^2 - v_i^2 = 2ad$$

$$d = 28.2 \text{ m}$$

Prentice Hall Physics Section 14 Assessment Answers

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Quantum (Un)speakables R.A. Bertlmann, A. Zeilinger, 2013-11-11 issues raised by quantum theory a topic not very popular during his student days at Queen's University Belfast Apparently John Bell who had been interested in the Bohr Einstein dialogue always took the position of Albert Einstein on philosophical issues He also felt that a completion of quantum mechanics using so called hidden variables would be highly desired as it would help to regain a realistic and objective picture of the world That way Bell hoped one would be able to arrive at a physics where measurement would not play such a central role as in the Copenhagen interpretation of quantum mechanics Then a most interesting sequence of events set in In 1952 David Bohm had achieved something which had earlier been proclaimed impossible It had been proved by John von Neumann that no hidden variable theory could agree with quantum mechanics Bohm actually formulated such a theory where each particle at any time has both a well defined position and a well defined momentum The conflict raised between von Neumann and Bohm was elegantly resolved by Bell who showed that von Neumann's proof contained a physically unjustifiable assumption So while John Bell had flung open the door widely for hidden variable theories he immediately dealt them a major blow In 1964 in his celebrated paper On the Einstein Podolsky Rosen Paradox he showed that any hidden variable theory which obeys Einstein's requirement of locality i.e.

Electrical Neuroimaging Christoph M. Michel, Thomas Koenig, Daniel Brandeis, Lorena R. R. Gianotti, Jiří Wackermann, 2009-07-23 Electrical neuroimaging is based on the analysis of brain electrical activity recorded from the human scalp with multichannel EEG It offers enormous potential for the dynamic mapping of brain functions and for the non invasive diagnosis of neurological and psychiatric conditions This authoritative reference gives a systematic overview of new electrical imaging methods with a sound introduction to the basics of multichannel recording of EEG and event related potential ERP data as well as spatio temporal analysis of the potential fields The book enables researchers to measure valid data select and apply appropriate analysis strategies and avoid the most common mistakes when analyzing and interpreting EEG ERP data Importantly it informs the research communities of the possibilities opened by these space domain oriented approaches to the analysis of brain electrical activity and of their potential to offer even more powerful diagnostic techniques when integrated with other clinically relevant data

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integrated with powerful 2D and 3D graphics for visualization are the key topics of this book The Python code examples powered by the Java platform can easily be transformed to other programming languages such as Java Groovy Ruby and BeanShell This book equips the reader with a computational platform which unlike other statistical programs is not limited by a single programming language The author focuses on practical programming aspects and covers a broad range of topics from basic introduction to the Python language on the Java platform Jython to descriptive statistics symbolic calculations neural networks non linear regression analysis and many other data mining topics He discusses how to find regularities in real world data how to classify data and how to process data for knowledge discoveries The code snippets are so short that they easily fit into single pages Numeric Computation and Statistical Data Analysis on the Java Platform is a great choice for those who want to learn how statistical data analysis can be done using popular programming languages who want to integrate data analysis algorithms in full scale applications and deploy such calculations on the web pages or computational servers regardless of their operating system It is an excellent reference for scientific computations to solve real world problems using a comprehensive stack of open source Java libraries included in the DataMelt DMelt project and will be appreciated by many data analysis scientists engineers and students Enhancing Science Education Margaret A.L. Blackie,Hanelie Adendorff,Marnel Mouton,2022-08-15 This book helps meet an urgent need for theorized accessible and discipline sensitive publications to assist science technology engineering and mathematics educators The book introduces Legitimation Code Theory LCT and demonstrates how it can be used to improve teaching and learning in tertiary courses across the sciences LCT provides a suite of tools which science educators can employ in order to help their students grasp difficult and dense concepts The chapters cover a broad range of subjects including biology physics chemistry and mathematics as well as different curriculum pedagogy and assessment practices This is a crucial resource for any science educator who wants to better understand and improve their teaching *Applied Mechanics Reviews* ,1965 *Advances in Quantum Phenomena* Enrico G. Beltrametti,Jean-Marc Lévy-Leblond,2012-12-06 Proceedings of a NATO ASI held in Erice Sicily February 16 18 1994 **Introduction to Petroleum Seismology, second edition** Luc T. Ikelle ,Lasse Amundsen,2018-03-26 Introduction to Petroleum Seismology second edition SEG Investigations in Geophysics Series No 12 provides the theoretical and practical foundation for tackling present and future challenges of petroleum seismology especially those related to seismic survey designs seismic data acquisition seismic and EM modeling seismic imaging microseismicity and reservoir characterization and monitoring All of the chapters from the first edition have been improved and or expanded In addition twelve new chapters have been added These new chapters expand topics which were only alluded to in the first edition sparsity representation sparsity and nonlinear optimization near simultaneous multiple shooting acquisition and processing nonuniform wavefield sampling automated modeling elastic electromagnetic mathematical equivalences and microseismicity in the context of hydraulic fracturing Another major modification in this edition is that each

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