

EXERCISE 2(A)

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Question: 1**Define work. When is work said to be done by a force?****Solutions:**

When the force applied on a body makes the body move, then the work is said to be done. It is a scalar quantity.

Question: 2**How is the work done by a force measured when****(i) force is in direction of displacement,****(ii) force is at an angle to the direction of displacement?****Solutions:****(i) Work done when force is in direction of displacement,**

$$W = F \times S$$

(ii) Work done when force is at an angle to the direction of displacement,

$$W = F S \cos \theta$$

Question: 3**A force F acts on a body and displaces it by a distance S in a direction at an angle θ with the direction of force.****(a) Write the expression for the work done by the force.****(b) What should be the angle between force and displacement so that the work done is****(i) zero,****(ii) maximum?****Solutions:****(a) Work done when force is at an angle θ to the direction of displacement,**

$$W = F S \cos \theta$$

(b) (i) The angle between force and displacement should be 90° as $\cos 90^\circ = 0$ for zero work done.

$$W = F S \cos 90^\circ$$

$$= FS \times 0$$

(ii) The angle between force and displacement should be 0° as $\cos 0^\circ = 1$ for maximum work done.

$$\text{Then, } W = FS \cos 0^\circ$$

$$= FS$$

Question: 4**A body is acted upon by a force. State two conditions when the work done is zero.**

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Judd E. Hollander



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Electrical Principles Peter Phillips, 2019-06-01 Supports learning and delivery in UEE30811 Certificate III in Electrotechnology Electrician UEE22011 Certificate II in Electrotechnology Career Start Phillips Electrical Principles uses a student friendly writing style a range of fully worked examples and full colour illustrations to make the basic principles easier to understand Covering the core knowledge components of the current UEE11 Electrotechnology Training Package and referencing the new AS NZS 3000 2018 Wiring Rules this textbook is structured written and illustrated to present the information in a way that is accessible to students With a new focus on sustainable energy brushless DC motors and the inclusion of student ancillaries as well as structuring more closely to the knowledge and skills requirements for each competency unit covered Electrical Principles 4e is the ideal text for students enrolled in Certificate II and III Electrotechnology qualifications With more than 800 diagrams hundreds of worked examples practice questions and self check questions this edition is the most up to date text in the market The writing style is aimed at Certificate III students while retaining the terminology typically used in the Electrical Trades Additionally the technical content does not break into a level above that of Certificate III At all times the book uses illustrations integrated with the text to explain a topic

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the 21st Century National Science Board (U.S.). Commission on Precollege Education in Mathematics, Science, and Technology,1983 *OE [publication]* ,1966 **Instrumentation and Automatic Control** United States. Division of Vocational and Technical Education,1966 The Chemical Element Javier García-Martínez,Elena

Serrano-Torregrosa,2011-09-19 In the International Year of Chemistry prominent scientists highlight the major advances in the fight against the largest problems faced by humanity from the point of view of chemistry showing how their science is essential to ensuring our long term survival Following the UN Millennium Development Goals the authors examine the ten most critical areas including energy climate food water and health All of them are opinion leaders in their fields or high ranking decision makers in national and international institutions Intended to provide an intellectual basis for the future development of chemistry this book is aimed at a wide readership including students professionals engineers scientists environmentalists and anyone interested in a more sustainable future Creating a Classroom Community of Young Scientists

Jeffrey W. Bloom,2006-07-20 Creating a Classroom Community of Young Scientists helps teachers both pre service and in service to develop exciting science programs in their classrooms This book provides the groundwork for designing and implementing a science program that takes into account the latest research in teaching and learning It provides an approach that will capture children s imaginations stimulate their curiosity and create a strong foundation for their continued interest in and appreciation of science and the world in which they live The book is designed to be user friendly and offers an approach to teaching science that is exciting for teachers as well This thoroughly revised second edition focuses on making inquiry more explicit both in terms of the process of inquiry and teaching in ways that capitalize on children s curiosity and questions New material has also been added on U S and Canadian science standards as well as professional standards for teachers *ERDA Research Abstracts* ,1976 **Consulting-specifying Engineer** ,2008 *I-physics Iv' 2006 Ed. ,*

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