

20 Static Electricity

1. How many excess electrons are on a sphere with a charge of $-9.20 \times 10^{-17} \text{ C}$?
2. Two charges, q_1 and q_2 , are separated by a distance, d , and exert a force, F , on each other. Identify what new force will exist if
 - a. q_1 is doubled and q_2 is cut in half.
 - b. q_1 is tripled and q_2 is doubled.
 - c. q_2 is cut in half and d is tripled.
3. An electric force of 0.030 N acts between two charges which are 7.2 cm apart. Calculate the force acting between the charges if the distance between them is reduced to 1.5 cm .
4. Two negative charges of $-24 \mu\text{C}$ each are separated by 6.0 cm . What force exists between the charges?
5. Two charged spheres are separated by 315 mm . What is the force between them if the charge on one sphere is $+9.6 \times 10^{-7} \text{ C}$ and the charge on the other sphere is $-2.2 \times 10^{-5} \text{ C}$?
6. Determine the electrostatic force of attraction between a proton and an electron that are separated by $7.5 \times 10^{-8} \text{ m}$.
7. A positive charge of $3.4 \times 10^{-7} \text{ C}$ exerts a repulsive force of 9.0 N on a second charge 4.0 cm away. Determine the second charge.
8. An attractive force of 0.87 N exists between a positive charge of $5.0 \mu\text{C}$ and a negative charge of $-1.5 \mu\text{C}$. What is the distance between the charges?
9. Two identical point charges exert a repulsive force of $6.0 \times 10^{-3} \text{ N}$ when separated by a distance of 6.5 cm . Calculate the charge of each.
10. Two positively charged spheres, A and B, are separated by 0.25 m . The charge on sphere A is one third the charge on sphere B. Find the charge on each sphere if the force of repulsion is 125 N .
11. Three particles are placed in a straight line. The left particle has a charge of $+2.0 \times 10^{-5} \text{ C}$, the middle particle has a charge of $-4.0 \times 10^{-6} \text{ C}$, and the right particle has a charge of $+3.0 \times 10^{-5} \text{ C}$. The left particle is 56 mm from the middle particle and the right particle is 42 mm from the middle particle. Find the net force on the left particle.
12. A positive charge of $23 \mu\text{C}$ is 15 cm directly north of a positive charge of $38 \mu\text{C}$. A third positive charge of $71 \mu\text{C}$ is 45 cm directly west of the $38\text{-}\mu\text{C}$ charge. Determine the net force on the $38\text{-}\mu\text{C}$ charge.

Static Electricity Supplemental Problems Answers

**Ohio State University. Center for
Vocational and Technical Education**



Static Electricity Supplemental Problems Answers:

Supplementary Material and Solutions Manual for Mathematical Modeling in the Environment Charles R.

Hadlock, 2020-05-05 This manual is meant to provide supplementary material and solutions to the exercises used in Charles Hadlock's textbook *Mathematical Modeling in the Environment*. The manual is invaluable to users of the textbook as it contains complete solutions and often further discussion of essentially every exercise the author presents in his book. This includes both the mathematical/computational exercises as well as the research questions and investigations. Since the exercises in the textbook are very rich in content rather than simple mechanical problems and cover a wide range, most readers will not have the time to work out every one on their own. Readers can thus still benefit greatly from perusing solutions to problems they have at least thought about briefly. Students using this manual still need to work out solutions to research questions using their own sources and adapting them to their own geographic locations or to numerical problems using their own computational schemes, so this manual will be a useful guide to students in many course contexts. Enrichment material is included on the topics of some of the exercises. Advice for teachers who lack previous environmental experience but who want to teach this material is also provided and makes it practical for such persons to offer a course based on these volumes. This book is the essential companion to *Mathematical Modeling in the Environment*. **Resources for Teaching**

Middle School Science Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices, middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them. *Resources for Teaching Middle School Science* developed by the National Science Resources Center (NSRC) is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8. The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards. This completely new guide follows on the success of *Resources for Teaching Elementary School Science*, the first in the NSRC series of annotated guides to hands-on inquiry centered curriculum materials and other resources for science teachers. The curriculum materials in the new guide are grouped in five chapters by scientific area: Physical Science, Life Science, Environmental Science, Earth and Space Science, and Multidisciplinary and Applied Science. They are also grouped by type: core materials, supplementary units, and science activity books. Each annotation of curriculum material includes a recommended grade level, a description of the activities involved and of what students can be expected to learn, a list of accompanying materials, a reading level, and ordering information. The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide. The criteria reflect and incorporate goals and principles of the National Science Education Standards. The annotations designate the specific content standards on which these curriculum pieces focus. In addition to the curriculum chapters, the

guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents *Schaum's Outline of Theory and Problems of Operations Research* Richard Bronson,1982 Confusing Textbooks Missed Lectures Not Enough Time Fortunately for you there s Schaum s Outlines More than 40 million students have trusted Schaum s to help them succeed in the classroom and on exams Schaum s is the key to faster learning and higher grades in every subject Each Outline presents all the essential course information in an easy to follow topic by topic format You also get hundreds of examples solved problems and practice exercises to test your skills This Schaum s Outline gives you Practice problems with full explanations that reinforce knowledge Coverage of the most up to date developments in your course field In depth review of practices and applications Fully compatible with your classroom text Schaum s highlights all the important facts you need to know Use Schaum s to shorten your study time and get your best test scores Schaum s Outlines Problem Solved

Physics for Scientists and Engineers with Modern Physics Ginsberg,1994-11

The Electrical Engineer ,1897

Trade and Industrial Education ,1972

Energy Research Abstracts ,1990

Cybersecurity of Industrial Systems

Jean-Marie Flaus,2019-07-30 How to manage the cybersecurity of industrial systems is a crucial question To implement relevant solutions the industrial manager must have a clear understanding of IT systems of communication networks and of control command systems They must also have some knowledge of the methods used by attackers of the standards and regulations involved and of the available security solutions Cybersecurity of Industrial Systems presents these different subjects in order to give an in depth overview and to help the reader manage the cybersecurity of their installation The book addresses these issues for both classic SCADA architecture systems and Industrial Internet of Things IIoT systems Trade and Industrial Education; Instructional Materials Ohio State University. Center for Vocational and Technical Education,1972

Contamination and ESD Control in High-Technology Manufacturing Roger W. Welker,R. Nagarajan,Carl E.

Newberg,2006-09-18 A practical how to guide that effectively deals with the control of both contamination and ESD This book offers effective strategies and techniques for contamination and electrostatic discharge ESD control that can be implemented in a wide range of high technology industries including semiconductor disk drive aerospace pharmaceutical medical device automobile and food production manufacturing The authors set forth a new and innovative methodology that

can manage both contamination and ESD often considered to be mutually exclusive challenges requiring distinct strategies Beginning with two general chapters on the fundamentals of contamination and ESD control the book presents a logical progression of topics that collectively build the necessary skills and knowledge Analysis methods for solving contamination and ESD problems Building the contamination and ESD control environment including design and construction of cleanrooms and ESD protected environments Cleaning processes and the equipment needed to support these processes Tooling design and certification Continuous monitoring Consumable supplies and packaging materials Controlling contamination and ESD originating from people Management of cleanrooms and ESD protected workplace environments Contamination and ESD Control in High Technology Manufacturing conveys a practical working knowledge of contamination and ESD control strategies and techniques and it is filled with case studies that illustrate key principles and the benefits of contamination and ESD control Moreover its straightforward style makes the material which integrates many disciplines of engineering and science clear and accessible Written by three leading industry experts this book is an essential guide for engineers and designers across the many industries where contamination and ESD control is a concern

Monthly Catalog of United States Government Publications ,1998 **Monthly Catalog of United States Government Publications, Cumulative Index** United States. Superintendent of Documents,1976 **Technical Abstract Bulletin** ,1964 **Nuclear Science Abstracts** ,1970 **Introduction to Health and Safety in Construction** Phil Hughes,Ed Ferrett,2015-09-16

Introduction to Health and Safety in Construction has been specially written for the thousands of students who complete the NEBOSH National Certificate in Construction Health and Safety each year Fully revised in alignment with the April 2015 syllabus the fifth edition provides students with all they need to tackle the course with confidence The book covers all the essential elements of health and safety management in construction including the legal framework risk assessment and control standards Highly illustrated with information provided in a clear easily accessible format it also provides checklists and record sheets to supplement learning Aligned to the NEBOSH National Certificate in Construction Health and Safety Practice questions and answers to test knowledge and increase understanding Complete with a companion website containing extra resources for tutors and students at www.routledge.com/cw/hughes The only textbook endorsed for the NEBOSH National Certificate in Construction Health and Safety the Introduction to Health and Safety in Construction is also suitable for construction courses in the UK and overseas and serves as a comprehensive reference for managers and professionals within the construction industry

Supplementary List of Publications of the National Bureau of Standards ,1948 **OE [publication]** ,1967 *Cambridge English for Schools 2 Teacher's Book* Andrew Littlejohn,Diana Hicks,1996-05-23 Aimed at young students this comprehensive book includes an A Z of Methodology reference section The levels 1 4 contain around 80 hours of class work depending on the various options used The Starter level provides around 40 60 hours of class work

Camera ,1925 **Schaum's Outline of Theory and Problems of Operations Management** Joseph G. Monks,1985

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