

Electrostatics worksheet lesson 1

Question 1

Two small identical spheres, **A** and **B**, are suspended on long silk threads, as shown in the sketch below. The spheres carry charges of $+3 \times 10^{-6} \text{ C}$ and $-2 \times 10^{-6} \text{ C}$ respectively.



1.1 Which sphere has an excess of electrons and why (Aiii 3-4)?

The two spheres are allowed to touch.

1.2 Will the electrons be transferred from A to B or B to A (Ai 1-2)?

The spheres are now separated.

1.3 Calculate the new charge on sphere B (Aii 3-4).

1.4 Calculate the number of electrons transferred during contact (Aii 5-6).

Physical Science Grade1term3 Electrostatics

Victor M. Corman



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Electrodynamics Arnold Sommerfeld,2013-10-22 *Electrodynamics Lectures on Theoretical Physics* Volume III covers topics related to electrodynamics The book discusses the fundamentals and basic principles of Maxwell s electrodynamics the derivation of the phenomena from the Maxwell equations and the theory of relativity The text also describes the electron theory as well as Maxwell s theory for moving bodies and other addenda Physicists and people involved in the study of electrodynamics will find the book invaluable

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can also benefit from it to improve their understanding of physics and of their own ways of reasoning *The Century Dictionary* ,1914 **Introduction to Air Pollution Science** Robert F. Phalen,Robert N. Phalen,2013 This unique textbook examines the basic health and environmental issues associated with air pollution including the relevant toxicology and epidemiology It provides a foundation for the sampling and analysis of air pollutants as well as an understanding of international air quality regulations Written for upper level undergraduate and introductory graduate courses in air pollution the book is also a valuable desk reference for practicing professionals who need to have a broad understanding of the topic Key features Provides the most up to date coverage of the basic health and environmental issues associated with air pollution Offers a broader examination of air pollution topics beyond just the meteorological and engineering aspects of air pollution Includes the following Instructor Resources Instructor s Manual PowerPoint Presentations and a TestBank The Phalens have put together a timely book on a critically important topic that affects all of us air pollution and they do so in a new and highly relevant way they consider the broad societal health impacts from a fundamental science viewpoint The epidemiology toxicology and risks of air pollutants are included and ethical issues of concern are highlighted This book is a must read for students who wish to become professionals in the air quality field and for students of environmental science whose work includes air pollution issues The book is a significant contribution to the discipline Cliff I Davidson Director Center for Sustainable Engineering Thomas C and Colleen L Wilmot Professor of Engineering Syracuse Center of Excellence in Environmental and Energy Systems and Department of Civil and Environmental Engineering Syracuse University Truly human well being and public health in the 21st century may hinge on our ability to anticipate recognize evaluate control and confirm responsible management of air pollution This timely informative and insightful text provides a solid introduction for students and a technically sound handbook for professionals seeking literacy and critical thinking real life examples understanding not just rote applications opportunities for continuous improvement and modern tools for assessing and managing current and evolving air pollution challenges Mark D Hoover PhD CHP CIH Aerosol and health science researcher author and editor **Nuclear Science Abstracts** ,1975 NSA is a comprehensive collection of international nuclear science and technology literature for the period 1948 through 1976 pre dating the prestigious INIS database which began in 1970 NSA existed as a printed product Volumes 1 33 initially created by DOE s predecessor the U S Atomic Energy Commission AEC NSA includes citations to scientific and technical reports from the AEC the U S Energy Research and Development Administration and its contractors plus other agencies and international organizations universities and industrial and research organizations References to books conference proceedings papers patents dissertations engineering drawings and journal articles from worldwide sources are also included Abstracts and full text are provided if available **Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the**

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