

PHYSICS 2401

Lab Homework – Capacitance

This homework will be due when you come to lab the week of October 9 -13.

1. Consider the following capacitors: C_1 has an area of 4.0 cm^2 and a separation distance of 2.0 mm ; C_2 has an area of 5.0 cm^2 and a separation distance of 3.0 mm ; C_3 has an area of 4.0 cm^2 and a separation distance of 1.0 mm ; C_4 has an area of 2.0 cm^2 and a separation distance of 1.0 mm . Rank the capacitors based on their capacitance from highest to lowest. Show one sample calculation of how you determined the capacitance. (15 pts)
2. Each of the capacitors in the previous problem is given a charge of $8.0 \text{ } \mu\text{C}$. Rank the potential of each capacitor from highest to lowest. Show one sample calculation. (10 pts)

Physics 2401 Lab Manual

DJ Losen



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Practical Physics William Suddards Franklin, Chauncey M. Crawford, Barry MacNutt, 1908 **Nuclear Science Abstracts**, 1975 *Reviews in Fluorescence 2005* Chris D. Geddes, Joseph R. Lakowicz, 2007-12-31 Last year we launched Volume 1 of the Reviews in Fluorescence series The volume was well received by the fluorescence community with many e mails and letters providing valuable feedback we subsequently thank you all for your continued support After the volume was published we were most pleased to learn that the volume is to be citable and indexed appearing on the ISI database Subsequently as well as the series having an impact number in due course individual chapters will appear on the database and be both citable and keyword searchable We feel that this will be a powerful resource to both authors and readers further disseminating leading edge fluorescence based material Our intention with this new series is to both disseminate and archive the most recent developments in both past and emerging fluorescence based disciplines While all chapters are invited we welcome and indeed encourage the fluorescence community to suggest areas of interest that they feel need to be covered by the series In this new volume Reviews in Fluorescence 2005 Volume 2 we have invited reviews in areas such as Multi dimensional Time correlated Single Photon Counting Fluorescence Correlation Spectroscopy RNA folding Lanthanide Probes and Fluorescent Biosensors to name but just a few We hope you find this volume a useful resource and we look forward to receiving any suggestions you may have Finally we would like to thank the authors for their timely articles Caroleann Aitken for the front cover design Kadir Asian for typesetting and Mary Rosenfeld for administrative support *Scientific and Technical Aerospace Reports*, 1995 **Vocational Instructional Materials Available from Federal Agencies** Northwest Regional Educational Laboratory, 1970 **Current Catalog** National Library of Medicine (U.S.), 1968 First multi year cumulation covers six years 1965 70 *Technical Abstract Bulletin*, *The Nation*, 1911 *Energy Research Abstracts*, 1979 **Chemical Abstracts**, 1928 **Accessions of Unlimited Distribution Reports**, 1971-06-04 *Physical Measurements* Ralph Smith Minor, 1916 *Technical Reports Awareness Circular : TRAC.*, 1989 **Farmers' Guide**, 1902
Review Index, 1942

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