

AP Physics C: Mechanics: Formula Sheet

I	II	III	IV	V	VI
Uniform fields or nonlinear fields that are drawn.	Point charge q superposition	Sphere with charge Q and sphere within a sphere	Arc with Point P at center of the arc	Hoop with P offset along an axis passing thru center	Cylinder
E given (or V is given)	All four of these problems use the same equation derived from Gauss's Law $\oint \vec{E} \cdot d\vec{A} = \frac{Q_{enc}}{\epsilon_0}$ $E(4\pi r^2) = \frac{Q_{enc}}{\epsilon_0}$ $E = \frac{1}{4\pi\epsilon_0} \frac{Q_{enc}}{r^2}$ $k = \frac{1}{4\pi\epsilon_0}$				$\oint \vec{E} \cdot d\vec{A} = \frac{Q_{enc}}{\epsilon_0}$
If V is given instead of E	Use $E = k \frac{Q}{r^2}$ to find All the individual E_i vectors due to each charge q_i acting a point P . Add all the individual E_i vectors to find the total electric field E .	Use $E = k \frac{Q_{enc}}{r^2}$ to find E at various points (inside the sphere $r < R$, on its surface $r = R$, and outside the sphere $r > R$).	$E = k \frac{Q}{r^2}$ $dE = k \frac{dq}{r^2}$ $\int dE_x = \int k \frac{dq}{r^2} \cos \theta$ Density $\lambda = \frac{Q}{L} = \frac{dq}{dl}$ $E_x = \int \frac{kQ}{r^2 L} dl \cos \theta$ $r = R$ Arc length $dl = R d\theta$ $E_x = \int \frac{kQ}{RL} \cos \theta d\theta$ $E_x = \frac{kQ}{RL} \int_{\theta_1}^{\theta_2} \cos \theta d\theta$ $E_x = \frac{kQ}{RL} (\sin \theta_2 - \sin \theta_1)$	$E = k \frac{Q}{r^2}$ $dE = k \frac{dq}{r^2}$ $\int dE_x = \int k \frac{dq}{r^2} \cos \theta$ $E_x = \frac{k}{r^2} \cos \theta \int dq$ $E_x = \frac{kQ}{r^2} \cos \theta$ $\cos \theta = \frac{r}{R}$ and $r = \sqrt{R^2 + x^2}$ $E_x = \frac{kQx}{(R^2 + x^2)^{3/2}}$	$E(2\pi r l) = \frac{Q_{enc}}{\epsilon_0}$ $E = \frac{Q_{enc}}{2\pi r l \epsilon_0}$ $\lambda = \frac{Q}{L}$ $E = \frac{\lambda}{2\pi r \epsilon_0}$
you can use the equation $E = -\frac{dV}{dr}$ to solve for E . Usually these problems involve uniform fields or when non-uniform they allow you to find average E between two equal potential line values. $E = \frac{V}{d}$	If a new charge appears at point P , then you can find the force on the new charge due to the field E . $F_E = q_{new} E_{total}$	$r < R$ in an insulator $\frac{Q_{enc}}{V_{enc}} = \frac{Q_{total}}{V_{total}}$ $\frac{Q_{enc}}{(\frac{4}{3})\pi r^3} = \frac{Q_{total}}{(\frac{4}{3})\pi R^3}$			$r < R$ in an insulator $\frac{Q_{enc}}{V_{enc}} = \frac{Q_{total}}{V_{total}}$ $\frac{Q_{enc}}{\pi r^2 L} = \frac{Q_{total}}{\pi R^2 L}$

1980 Ap Physics C Scoring Guidelines

Warren W. Willingham, Nancy S. Cole



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Gender and Fair Assessment Warren W. Willingham, Nancy S. Cole, 2013-12-16 There have been many important changes in the participation of women and men in American society over the past quarter century Tests play a role in those changes by providing evidence of the diverse achievement and proficiency of women and men They aid the learning process and reflect inequalities in opportunity to learn and participate In addition they provide useful information in considering what alternatives in education and work make most sense for individuals and influence views about groups of students educational programs and a wide range of issues For all of these reasons it is important that tests assess fairly and reflect accurately the ways young people are and are not achieving as well as desired The test performance of women and men is a research topic of historical interest and has received much attention in recent years Because of this increased interest there is a great deal of new research and data available The purpose of the study presented in this volume was to review this new information with two objectives in mind to clarify patterns of gender difference and similarity in test performance and related achievements and to see what implications those findings might have for fair assessment and as a corollary examine the assessment process as a possible source of gender differences This study is interested in tests used in education to assess developed knowledge and skill In order to gain a broader view of gender similarity and difference the contributors looked at other types of measures and other characteristics of young women and men Their hope is to contribute to a firmer basis for insuring fairness in tests an objective which is particularly important as the field moves increasingly to new forms of assessment in which there is less experience Publications of the U.S. Geological Survey, 1971-1981 ,1986 **CRREL**

Technical Publications Cold Regions Research and Engineering Laboratory (U.S.),1981 **The Publishers' Trade List Annual** ,1981 **Energy Research Abstracts** ,1984 **Astrochemistry of Cosmic Phenomena** P.D. Singh,2012-12-06

The IAU symposium No 150 Astrochemistry of Cosmic Phenomena was held at the beautiful and scenic town of Campos do Jordao Sao Paulo Brazil from August 5 to 9 1991 and was attended by 111 registered participants with 17 accompanied guests from 19 countries The symposium had a wide ranging discussion of the chemistry of astronomical environments with an emphasis on the description of molecular processes that critically influence the nature and evolution of astronomical objects and the identification of specific observations that directly address significant astronomical questions The subject areas of the symposium included atomic and molecular processes at low and high temperatures and photon interactions the chemical structure of molecular clouds in the Milky Way and in external galaxies the chemistry of outflows and their interactions with the interstellar medium the chemical connections between the interstellar medium and the solar system and pregalactic chemistry The scientific programme comprised of review talks and contributed papers with a general introduction by Professor A Dalgarno and a final overview of the whole symposium by Professor D A Williams Financial supports from the Sao Paulo State Foundation Support FAPESP Brazilian National Research Council CNPq Finance Company

of Studies and Projects FINEP Institute of Astronomy and Geophysics of University of Sao Paulo IAG USP and International Astronomical Union IAU are gratefully acknowledged I am greatly indebted to Professor A

Publications of the Geological Survey Geological Survey (U.S.),1948 University Bulletin University of California (System),1979 Basic Engineering Plasticity David Rees,2012-12-02 Plasticity is concerned with understanding the behavior of metals and alloys when loaded beyond the elastic limit whether as a result of being shaped or as they are employed for load bearing structures Basic Engineering Plasticity delivers a comprehensive and accessible introduction to the theories of plasticity It draws upon numerical techniques and theoretical developments to support detailed examples of the application of plasticity theory This blend of topics and supporting textbook features ensure that this introduction to the science of plasticity will be valuable for a wide range of mechanical and manufacturing engineering students and professionals Brings together the elements of the mechanics of plasticity most pertinent to engineers at both the micro and macro levels Covers the theory and application of topics such as Limit Analysis Slip Line Field theory Crystal Plasticity Sheet and Bulk Metal Forming as well as the use of Finite Element Analysis Clear and well organized with extensive worked engineering application examples and end of chapter exercises Resources in Education ,1992-10

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