

Physics Final Exam Cheat Sheet

Physics 111 General Physics I Final Exam Formula Sheet

$$\text{speed}_{\text{ave}} = \text{distance} / \Delta t$$

Linear Motion (Constant a):

$$v_{\text{ave}} = \Delta x / \Delta t = (v_i + v_f) / 2$$

$$a_{\text{ave}} = \Delta v / \Delta t$$

$$v = v_i + a t$$

$$v_f^2 - v_i^2 = 2 a \Delta x$$

$$\Delta x = v_{\text{ave}} t = (v_i + v_f) t / 2$$

$$\Delta x = v_i t + \frac{1}{2} a t^2$$

$$F_{\text{net}} = ma$$

Uniform Circular Motion:

$$a_{\text{cp}} = v^2 / R = \omega^2 R$$

$$F_{\text{cp}} = m v^2 / R =$$

Forces:

$$F_{\text{net}} = ma$$

$$f_k = \mu_k N$$

$$f_s \leq \mu_s N$$

$$F_{\text{spring}} = -k \Delta x$$

$$F_g = G m_1 m_2 / r^2$$

$$G = 6.67 \times 10^{-11} \text{ N} \cdot \text{m}^2 / \text{kg}^2$$

$$g = 9.81 \text{ m/s}^2$$

Quadratic Formula:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Momentum and Impulse:

$$\mathbf{p} = m\mathbf{v}$$

$$\mathbf{I} = \Delta \mathbf{p} = \mathbf{F}_{\text{average}} t$$

If $\mathbf{F}_{\text{external}} = 0$, $\mathbf{p}_{\text{system}} = \sum m_i \mathbf{v}_i = \text{constant}$
(collisions)

Linear & Rotational Variables:

$$s = R \Delta \theta$$

$$v = R \omega$$

$$a_{\text{tan}} = R \alpha$$

Rotational Motion (Constant α):

$$\omega_{\text{ave}} = \Delta \theta / \Delta t = (\omega_i + \omega_f) / 2$$

$$\alpha_{\text{ave}} = \Delta \omega / \Delta t$$

$$\omega = \omega_i + \alpha t$$

$$\omega_f^2 - \omega_i^2 = 2 \alpha \Delta \theta$$

$$\Delta \theta = \omega_{\text{ave}} t = (\omega_i + \omega_f) t / 2$$

$$\Delta \theta = \omega_i t + \frac{1}{2} \alpha t^2$$

$$\tau_{\text{net}} = I \alpha$$

Projectile Motion:

$$x = x_0 + v_{0x} t$$

$$y = y_0 + v_{0y} t - \frac{1}{2} g t^2$$

Work, Energy and Power:

$$K = \frac{1}{2} m v^2$$

$$U_g = mgh$$

$$U_{\text{spring}} = \frac{1}{2} k \Delta x^2$$

$$W_{\text{net}} = \Delta K = \mathbf{F}_{\text{parallel}} \cdot \mathbf{d} = F d \cos \theta$$

$$W_{\text{non-conservative}} = \Delta(K + U) = \Delta E$$

$$E = K + U = \text{constant}, \text{ if } W_{\text{non-conservative}} = 0$$

$$P = W / t$$

Center of Mass:

$$\mathbf{r}_{\text{CoM}} = (\sum m_i \mathbf{r}_i) / (\sum m_i)$$

$$\mathbf{v}_{\text{CoM}} = (\sum m_i \mathbf{v}_i) / (\sum m_i) = \mathbf{p}_{\text{system}} / (\sum m_i)$$

Angular Momentum:

$$L = I \omega$$

$$I_{\text{particles}} = \sum m_i r_i^2$$

$$\tau = F r_{\perp}$$

$$\tau_{\text{net}} = \Delta L / \Delta t = I \alpha$$

$$\text{If } \tau_{\text{external}} = 0, L_{\text{system}} = \sum I \omega = \text{constant}$$

$$\text{constant speed rotation: } T = 2 \pi R / v = 2 \pi / \omega$$

Crede Physics Final Exams

JL Elias

A red circular graphic with a gradient, appearing as a stylized arrow or a light effect, positioned to the right of the JL Elias text bar.

Crede Physics Final Exams:

Educating Teachers of Science, Mathematics, and Technology National Research Council, Center for Education, Committee on Science and Mathematics Teacher Preparation, 2001-01-18 Each new headline about American students poor performance in math and science leads to new calls for reform in teaching Education Teachers of Science Mathematics and Technology puts the whole picture together by synthesizing what we know about the quality of math and science teaching drawing conclusions about why teacher preparation needs reform and then outlining recommendations for accomplishing the most important goals before us As a framework for addressing the task the book advocates partnerships among school districts colleges and universities with contributions from scientists mathematicians teacher educators and teachers It then looks carefully at the status of the education reform movement and explores the motives for raising the bar for how well teachers teach and how well students learn Also examined are important issues in teacher professionalism what teachers should be taught about their subjects the utility of in service education the challenge of program funding and the merits of credentialing Professional Development Schools are reviewed and vignettes presented that describe exemplary teacher development practices **Register of the University of California** University of California (1868-1952), 1951

Educational Systems of Africa Martena Tenney Sasnett, Inez Hopkins Sepmeyer, 1967 Monograph outlining the educational system of each African country includes information on primary education secondary education higher education vocational training teacher training technical education etc In respect of examinations certificates and degrees curriculum hours per week for each subject matriculation requirements etc Bibliography pp 1510 to 1550 maps references and statistical tables Report of the Examination Department University of the State of New York. Examination Department, 1898 *Proceedings*, 1903 **Annual Announcement** New York Medical College, 1894 *Annual report of the Indiana State Board of Medical Registration and Examination. 1908*, 1909 *The Lancet*, 1917 Bulletin of the Philadelphia College of Pharmacy and Alumni Report, 1908 **Cornell University Announcements** Cornell University, 1917 The Journal of the Florida Medical Association, 1916 Proceedings included in vols 3 4 7 23 25 Annual Report of the Indiana State Board of Medical Registration and Examination Indiana. State Board of Medical Registration and Examination, 1908 **Annual report of the Indiana State Board of Medical Registration and Examination. 1907**, 1908 **Bulletin** Starling-Ohio Medical College, Columbus, Ohio. Department of Medicine, Dentistry and Pharmacy, 1913 *California Public Schools [1] Teaching and Services Credentials Information* California Commission for Teacher Preparation and Licensing, 1976 Cornell University Register and Catalogue Cornell University, 1899 *Register and Catalogue* Cornell University, 1899 **The Register**, 1899 **Pennsylvania School Journal**, 1924 *Announcement* Barnard College, 1929

Crede Physics Final Exams Book Review: Unveiling the Magic of Language

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