

# GRAVITATION

$$F = G \frac{Mm}{r^2} \quad \text{For Escape (u)} = -GMm/a$$



$$V_{\text{orbital}} = \sqrt{GM/r}$$
  

$$V_{\text{escape}} = \sqrt{2GM/r}$$

## VARIATION OF g

$$g = G \frac{M}{r^2} \quad g = g(1 - \frac{d}{R}) \quad g = g(1 - \frac{d^2}{R^2})$$



$$g' = g - \omega^2 R \cos^2 \theta$$

# PROPERTIES OF MATTER

$$\text{Young's Modulus (Y)} = \frac{F/A}{\Delta L/L}$$

$$\text{Bulk Modulus (B)} = -V \frac{\Delta P}{\Delta V}$$

$$\text{Shear Modulus (A)} = \frac{F/A}{\Delta x/x}$$

$$\text{Compressibility (K)} = \frac{1}{B} = -\frac{1}{V} \frac{\Delta V}{\Delta P}$$

$$\text{Poisson's Ratio (P)} = \frac{\text{Lateral Strain}}{\text{Longitudinal Strain}} = \frac{\Delta r/r}{\Delta L/L}$$

$$\text{Elastic Energy (U)} = \frac{1}{2} \text{STRESS} \times \text{STRAIN} \times \text{VOLUME}$$

$$\frac{1}{2} \text{STRESS} \times \text{STRAIN} \times \text{VOLUME}$$

# THERMODYNAMICS

$$I^{\text{st}} \text{ Law } \Delta Q = \Delta U + W \quad W = \int p dV$$

$$\text{Adiabatic } W = \frac{P_1 V_1 - P_2 V_2}{\gamma - 1}$$

$$\text{Isothermal } W = nRT \ln \left( \frac{V_2}{V_1} \right)$$

$$\text{Isobaric } W = p(\Delta V)$$

$$\text{Adiabatic } \Delta Q = 0; P V^\gamma = \text{const}$$

$$I^{\text{nd}} \text{ Law Entropy } \Delta S = \frac{dQ}{T}$$

$$I^{\text{th}} \text{ Law Entropy } \Delta T, \Delta Q, \Delta V = 0$$

$$\frac{Q_2}{Q_1} = \frac{T_2}{T_1} \quad W = Q_1 - Q_2$$

$$\eta = \frac{W}{Q_1} = 1 - \frac{Q_2}{Q_1} = \frac{T_1 - T_2}{T_1}$$

$$C_p = \frac{Q_2}{W} = \frac{T_2}{T_1 - T_2}$$

# MODERN PHYSICS

$$E = h\nu = hc/\lambda \quad p = h/\lambda = E/c \quad E = mc^2$$

$$\text{Cutoff photo-electron } \lambda_{\text{cutoff}} = hc/\phi$$

$$\text{Threshold } \lambda_0 = hc/\phi$$

$$\text{Stopping } V_s = \frac{hc}{\lambda} - \phi$$

$$\text{de Broglie } \lambda = h/p$$

$$\text{Bohr's Atom } E_n = -\frac{13.6 \text{ eV}}{n^2} = -\frac{2.18 \times 10^{-18} \text{ J}}{n^2}$$

$$r_n = \frac{n^2 h^2}{4\pi m_e e^2} = 0.053 n^2 \text{ nm} \quad l = \frac{nh}{2\pi}$$

$$\text{Excitation} = 13.6 \text{ eV} \left( \frac{1}{n_1} - \frac{1}{n_2} \right)$$

$$\text{Heisenberg } \Delta x \Delta p \geq \hbar/2 \quad \Delta E \Delta t \geq \hbar/2$$

# ELECTROSTATICS

$$\text{Coulomb's Law } F = \frac{1}{4\pi\epsilon_0} \frac{q_1 q_2}{r^2}$$

$$E = \frac{F}{q} = \frac{1}{4\pi\epsilon_0} \frac{q}{r^2}$$

$$\text{Potential (V)} = \frac{1}{4\pi\epsilon_0} \frac{q}{r}$$

$$\text{PE (U)} = \frac{1}{4\pi\epsilon_0} \frac{q_1 q_2}{r} \quad E = \frac{dV}{dr}$$

## DIPOLE MOMENT

$$P = qd \quad E = \frac{1}{4\pi\epsilon_0} \frac{P \cos \theta}{r^3}$$

$$E = \frac{1}{4\pi\epsilon_0} \frac{P \sin \theta}{r^3}$$

$$\text{DIPOLE } E = \frac{P}{r^2} \text{ in field } U = -P \cdot E$$

## GAUSS'S LAW

$$\oint \Phi = Q_{\text{enc}}/\epsilon_0 \quad \text{FLUX } \Phi = \oint E \cdot dS$$

# CAPACITORS

$$C = Q/V \quad C = \epsilon A/d$$



$$C = \frac{2\pi\epsilon_0 l}{\ln(b/a)}$$

$$C = 4\pi\epsilon_0 \frac{a^2 b}{a+b}$$



$$\text{PARALLEL } C_{\text{eq}} = C_1 + C_2$$

$$\text{SERIES } \frac{1}{C_{\text{eq}}} = \frac{1}{C_1} + \frac{1}{C_2}$$

$$\text{WITH DIELECTRIC } C = \epsilon_0 \epsilon_r \frac{A}{d}$$

$$\text{Force b/w plates} = \frac{Q^2}{2\epsilon_0 A}$$

$$U = \frac{1}{2} CV^2 = \frac{Q^2}{2C} = \frac{1}{2} QV$$

# CURRENT ELECTRICITY

$$\text{Density } j = \frac{I}{A} = n e v_d$$

$$V_{\text{drift}} = \frac{1}{n e} \frac{dI}{dA}$$

$$R_{\text{unit}} = \rho/L \quad \rho = \frac{1}{\sigma}$$

$$R = \rho \frac{L}{A} = \frac{L}{\sigma A}$$

$$\text{Ohm's Law } V = IR$$

$$\text{KIRCHHOFF'S LAWS}$$

$$\bullet \text{ Junction Law } \sum I = 0$$

$$\bullet \text{ Loop Law } \sum \Delta V = 0$$

$$\text{Power } P = I^2 R = V I = IV$$

$$\text{BALANCED WHEATSTONE BRIDGE}$$

$$\text{PARALLEL } \frac{1}{R_{\text{eq}}} = \frac{1}{R_1} + \frac{1}{R_2}$$

$$\text{SERIES } R_{\text{eq}} = R_1 + R_2$$

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# ELECTROMAGNETIC INDUCTION

$$\text{MAGNETIC FLUX } \Phi = \oint B \cdot dS$$

$$\text{FARADAY'S LAW } \epsilon = - \frac{d\Phi}{dt}$$

$$\text{LENZ'S LAW: Induced current produces B that opposes change in } \Phi$$

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# LIGHT WAVES

$$\text{Plane Waves } E = E_0 \sin(kx - \omega t)$$

$$\text{Spherical Waves } E = \frac{E_0}{r} \sin(kr - \omega t)$$

$$\text{Intensity } I = \frac{1}{2} \epsilon_0 c E_0^2$$

$$\text{Resolution } \Delta \lambda = \lambda \Delta \lambda / \lambda$$

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# SOUND WAVES

$$S = S_0 \sin(kx - \omega t) \quad V_{\text{max}} = \sqrt{Y/\rho}$$

$$P = P_0 \cos(kx - \omega t) \quad V_{\text{rms}} = \sqrt{B/\rho}$$

$$Q = \left( \frac{B}{\rho} \right)^{1/2} A$$

$$I = \frac{1}{2} \rho \omega^2 A^2 v = \frac{P_0^2}{2\rho} = \frac{P_{\text{rms}}^2}{\rho}$$

$$\text{STANDING LONGITUDINAL WAVES}$$

$$R = R_0 \sin(kx - \omega t) \quad R_0 = \sin(kx - \omega t)$$

$$P = P_0 \cos(kx - \omega t) \quad P_0 = \cos(kx - \omega t)$$

$$\text{CLOSED ORGAN PIPE}$$

$$L = (2n-1) \frac{\lambda}{4} \quad n = 1, 2, 3, \dots$$

$$\text{OPEN ORGAN PIPE}$$

# OPTICS

$$\text{REFRACTION}$$

$$\text{Snell's Law } n_1 \sin \theta_1 = n_2 \sin \theta_2$$

$$\text{Total Internal Reflection}$$

$$\text{Critical Angle } \theta_c = \sin^{-1}(n_2/n_1)$$

$$\text{Dispersion } n = n(\lambda)$$

$$\text{Prism}$$

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# SEMICONDUCTORS

$$\text{Half Wave Rectifier}$$

$$\text{Full Wave Rectifier}$$

$$\text{Triode Valve}$$

$$\text{Triode}$$

$$\text{Triode}$$

$$\text{Triode}$$

$$\text{Triode}$$

$$\text{Triode}$$

$$\text{Triode}$$

$$\text{Triode}$$

$$\text{Half Wave Rectifier}$$

$$\text{Full Wave Rectifier}$$

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# University Of Physics 12 Std Notes

**Paulo Vargas Moniz**



## University Of Physics 12 Std Notes:

**Catalogue** State University of Iowa, 1924      **University of Michigan Official Publication** ,      **Catalogue** State University of Iowa, 1923      **Wranglers and Physicists** Peter Michael Harman, 1985      **Catalogue** University of Iowa, 1923

Casimir Effect 50 Years Later, the - Proceedings Of The Fourth Workshop On Quantum Field Theory Under The Influence Of External Conditions Michael Bordag, 1999-04-01 This volume contains papers based on talks delivered at the Fourth Workshop on Quantum Field Theory Under the Influence of External Conditions This series of workshops held at the Institute for Theoretical Physics of the University of Leipzig was launched in 1989 The present meeting took place 50 years after Hendrik B Casimir discovered the effect named after him This effect was found by Casimir in investigating the retarded long range van der Waals forces in colloids and re expressing them as a change in the vacuum energy of the electromagnetic field The story of why this work was done was told by Casimir himself at the workshop A historical account of the development of vacuum energy in quantum theory starting from Planck's half quanta was given by H Reichenberg Another interesting topic was about a possible explanation of sonoluminescence as a dynamical Casimir effect Kim Milton reported on the work done by Julian Schwinger on this topic during the last years of the great physicist's life as well as on his own research M Bordag Leipzig provided a general analysis of the ultraviolet divergences of the vacuum energy of a dielectric sphere The Casimir effect had been experimentally verified 10 years after its discovery on a rather qualitative level Only last year and in another experiment this year it became also quantitatively well established It turned out to be of unexpectedly high sensitivity with respect to the presence of the so called fifth forces as V Mostepanenko showed in his talk Modern methods of computing the Casimir effect rely on zeta functional regularization and heat kernel expansion This mathematical background together with a broader embedding into expansions of various spectral quantities was the subject of the talk by S Fulling Recent progress in the computation of the heat kernel coefficients was reported by V Kornyak and K Kirsten A number of talks were devoted to magnetic background fields of various types for instance new trends in the Aharonov Bohm effect In cosmology negative energy densities and the role of adiabatic vacuum states in a de Sitter universe were discussed      **Time, Quantum and Information** Lutz Castell, Otfried Ischebeck, 2013-04-17 This publication centers on the extraordinary ideas in and concepts of physics of the Carl Friedrich von Weizsäcker At the time of his 90 birthday on June 28 2002 it seems the right moment to try such a survey The themes of two Festschriften for Carl the Friedrich von Weizsäcker on the occasion of his 60 and 70 birthdays E Scheibe and G Suessmann eds *Einheit und Vielheit* and K Meyer Abich ed *Physik Philosophie und Politik* were his unique capability to encompass physics philosophy and politics He may be more known publicly today for his efforts for containment of the Cold War nuclear threat for the abolition of war as an instrument of international politics for the social responsibility of scientists and for the Conciliar Process of the Churches for Justice Peace and the Integrity of Creation But physics has been his primary professional vocation and has always remained in the center of his thought and life But even in

light of the physics focus of this book it would not do justice to Carl Friedrich von Weizsäcker to restrict his achievements in physics to efforts only accessible to professionals The contributions in Part 1 show how his very concentration on physics has led him to take an active part in problems of politics social change philosophy and religion **The Analysis of a Conflict**

**Event Between a Co-Worker and Me** Rev. Zuxing Chen,2022-11-03 Not long after the Wenchuan Earthquake occurred on May 12 2008 Zuxing and his family were sent by their church to help those victims for three months where they met Paulo a house church leader from northeast area of China Paulo is a man of action he dreamed big even though the beautiful dream a big project to help the earthquake victims did not come true finally They became good friends and fellow co workers They even shared the same apartment for two months Zuxing knew that Paulo might not be satisfied with him since Zuxing did not give as much money from the relief fund to support his dream project as ZuxingaEUR tm s senior pastor promised to Paulo because based on ZuxingaEUR tm s investigation PauloEUR tm s project was not practical at all But Zuxing didnaEUR tm t think too much about it To his surprise not long after ZuxingaEUR tm s family came back to the States Paulo wrote a scathing e mail to ZuxingaEUR tm s senior pastor to spoke evil of Zuxing behind his back and the senior pastor forwarded the e mail to Zuxing and asked him to give some explanations It was a big spiritual event and crisis for him Zuxing felt shamed insulted personally threatened devalued and he was tempted to defend and vindicate After struggling for a few days Zuxing chose not to fight back but to communicate directly with Paulo who had become reactive and combative He wrote an e mail to Paulo in which Zuxing expressed his respect toward Paulo and he honored his dignity and face Surprisingly PauloEUR tm s attitude toward Zuxing flipped by 180 degrees He apologized to Zuxing and spoke well of him in front of ZuxingaEUR tm s senior pastor The wall came down Conflict was perfectly resolved Catalogue of the University of Arkansas University of

Arkansas (Fayetteville campus),1894 *Quantum Cosmology - The Supersymmetric Perspective - Vol. 2* Paulo Vargas Moniz,2010-04-02 We read in order to know we are not alone I once heard and perhaps it could also be suggested that we write in order not to be alone to endorse to promote continuity The idea for this book took about 10 years to materialize and it is the author s hope that its content will constitute the beginning of further explorations beyond current horizons More speci cally this book appeals to the reader to engage upon and persevere with a journey moving through the less well explored territories in the evolution of the very early universe and pushing towards new landscapes P haps during or after consulting this book this attitude and this willingness will be embraced by someone somewhere and this person will go on to enrich our quantum cosmological description of the early universe by means of a clearer supersymm ric perspective It is to these creative and inquisitive young minds that the book is addressed The reader will not therefore nd in this book all the answers to all the problems regarding a supersymmetric and quantum description of the early universe and this remark is substantiated in the book by a list of unresolved and challenging problems itself incomplete Hearing Stanley A.

Gelfand,2024-11-25 This fully revised and updated seventh edition provides a thorough overview and introduction to hearing

science Covering topics such as conductive and cochlear mechanisms auditory pathways and binaural and spatial hearing and including some new and updated diagrams and figures this book serves as a great resource for both graduate students and professionals working in audiology and other fields like psychology neuroscience otolaryngology and linguistics This improved edition reflects the ever changing field of hearing science **Book catalog of the Library and Information**

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The Edinburgh University Calendar ,1908 Special collections Princeton University. Library,1920 *Union University Quarterly* ,1906 **Women Scientists in America** Margaret W. Rossiter,1982 Winner of the Berkshire Conference of

Women Historians Prize In volume one of this landmark study focusing on developments up to 1940 Margaret Rossiter describes the activities and personalities of the numerous women scientists astronomers chemists biologists and psychologists who overcame extraordinary obstacles to contribute to the growth of American science This remarkable history recounts women s efforts to establish themselves as members of the scientific community and examines the forces that inhibited their active and visible participation in the sciences **Strings MM, University of Michigan** M. J. Duff,James T.

Liu,Jianxin Lu,2001 Superstring theory and its successor M theory hold promises of a deeper understanding of the Standard Model of particle physics the unification of the four fundamental forces the quantum theory of gravity the mysteries of quantum black holes Big Bang cosmology and ultimately their complete synthesis in a final theory of physics This volume records the proceedings of the major annual international conference on the subject OC Strings 2000OCO which involved 42 talks by the world s leading experts on string theory and M theory It will be of interest not only to researchers in the field but also to all those who wish to keep abreast of the latest developments and breakthroughs in this exciting area of theoretical physics Contents Gauge Fields Scalars Warped Geometry and Strings E Silverstein RS Braneworlds in Type IIB Supergravity K S Stelle Supersymmetry in Singular Spaces and Domain Walls R Kallosh Overview of K theory Applied to Strings E Witten N 2 Gauge Gravity Duals J Polchinski The Supergravity Brane world J T Liu Aspects of Collapsing Cycles B R Greene Covariant Quantization of the Superstring N Berkovits Supergravity Description of Field Theories on Curved Manifolds and a No Go Theorem J Maldacena Cosmological Breaking of Supersymmetry T Banks Space Time Uncertainty and Noncommutativity in String Theory T Yoneya Stable Non BPS States and Their Holographic Duals S Mukhi Representations of Superconformal Algebras in the AdS 7 4 CFT 6 3 Correspondence S Ferrara and other papers Readership String theorists and mathematical physicists The Christian Advocate ,1902

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