

# PHYSICS FORMULAS

## 2425

### Types of Errors:

**Personal errors** due to bias or mistakes.

**Systematic errors** due to miscalibration of instruments, personal bias, or reaction time.

**Random errors** are unknown or unpredictable, such as voltage or temperature fluctuations, vibration, etc.

**Accuracy** - how close measurement comes to accepted value

**Precision** - how consistent or repeatable measurements are

### Calculation of Errors:

**Multiplication:** operation:  $A = L \times W$   
error:  $\Delta A = \pm (L \times \Delta W + W \times \Delta L)$

**Division:** operation:  $D = \frac{M}{V}$   
error:  $\Delta D = \pm \left( \frac{\Delta M}{V} + \frac{M \times \Delta V}{V^2} \right)$

$$g = 9.8 \text{ m/s}^2 = 32 \text{ ft/s}^2$$

$$g_{\text{moon}} = 1.62 \text{ m/s}^2$$

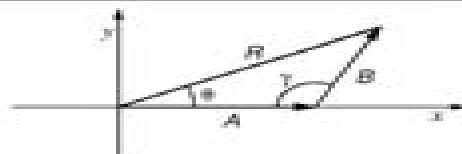
**Quadratic Equation:**

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

### Law of Cosines:

$$R = \sqrt{A^2 + B^2 - 2AB \cos \gamma}$$

$$\sin \theta = \frac{R}{B \sin \gamma}$$



### Newton's Laws:

**First Law:** Law of Inertia. An object at rest will remain at rest unless acted on by an external force. An object in motion will remain in motion unless . . .

**Second Law:**  $\Sigma F = ma$  ,  $\Sigma \tau = I\alpha$  The sum of external forces on a object is equal to its mass (or inertia for rotational forces) times the acceleration.

**Third Law:** Every action has an equal and opposite reaction.

**Law of Gravity:**  $F =$  force of attraction exerted on each body  
 $F = G \frac{m_1 m_2}{r^2}$   $G =$  gravitational constant  $6.67 \times 10^{-11}$   
 [N · m<sup>2</sup>/kg] or [m<sup>3</sup>/kg · s<sup>2</sup>]  
 $r =$  distance between centers [m]

### Formulas for Velocity: [units: $v$ , m/s; $a$ , m/s<sup>2</sup>; $x$ , m; $t$ , s]

$$v = v_0 + at \quad (\text{for constant } a)$$

$$\bar{v} = \frac{v_0 + v}{2} \quad (\text{for constant } a) \text{ average velocity}$$

$$x = v_0 t + \frac{1}{2} at^2 \quad (\text{for constant } a)$$

$$v^2 = v_0^2 + 2ax \quad (\text{for constant } a)$$

**Rocket Science:** The relationship between velocity and the burning of fuel.

$$v_f - v_i = u \ln \frac{M_i}{M_f} \quad u = \text{speed of the exhaust relative to the rocket [m/s]}$$

### Addition of Multiple Vectors:

$$\vec{R} = \vec{A} + \vec{B} + \vec{C} \quad \text{Resultant = Sum of the vectors}$$

$$\vec{R}_x = \vec{A}_x + \vec{B}_x + \vec{C}_x \quad \text{x-component} \quad A_x = A \cos \theta$$

$$\vec{R}_y = \vec{A}_y + \vec{B}_y + \vec{C}_y \quad \text{y-component} \quad A_y = A \sin \theta$$

$$R = \sqrt{R_x^2 + R_y^2} \quad \text{Magnitude (length) of } R$$

$$\theta_x = \tan^{-1} \frac{R_y}{R_x} \quad \text{or} \quad \tan \theta_x = \frac{R_y}{R_x} \quad \text{Angle of the resultant}$$

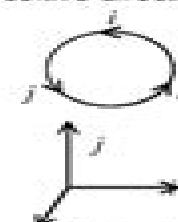
### Unit Vectors:

Cross Product or Vector Product:

$$i \times j = k \quad j \times i = -k$$

$$i \times i = 0$$

Positive direction:



Dot Product or Scalar Product:

$$i \cdot j = 0 \quad i \cdot i = 1$$

**Velocity** is the derivative of position with respect to time:

$$\mathbf{v} = \frac{d}{dt} (x\mathbf{i} + y\mathbf{j} + z\mathbf{k}) = \frac{dx}{dt} \mathbf{i} + \frac{dy}{dt} \mathbf{j} + \frac{dz}{dt} \mathbf{k}$$

**Acceleration** is the derivative of velocity with respect to time:

$$\mathbf{a} = \frac{d}{dt} (v_x \mathbf{i} + v_y \mathbf{j} + v_z \mathbf{k}) = \frac{dv_x}{dt} \mathbf{i} + \frac{dv_y}{dt} \mathbf{j} + \frac{dv_z}{dt} \mathbf{k}$$

# Modern Physics Cheat Sheet

**Steven A. Leduc**



## Modern Physics Cheat Sheet:

**Spin** Bill Gruber, 2023-12-01 Everywhere things spin wheels turn motors hum tornadoes roar This book explains the history and basic physics of spinning objects from yo-yos drills propellers and washing machines to ballet dancers dust devils and bacteria The book gives instructive entertaining accounts of everyday sights Does a curve ball really curve Why do figure skaters tuck in their arms Can you make a disposable pen fly How does a falling cat always land on its feet Answers to these questions and many others tell the amazing story of things that spin *Modern Ranch Living* Mark Poirier, 2013-09-19 Poirier is a wonderful creator of situations His great creation here is Kendra Poirier makes you feel trapped in his characters own predicaments This is America as it really is Superb Guardian One of the most kinetic original young fiction writers we've read in a long time Esquire The weather is hotter than hell in Tucson Arizona and weird things are afoot in the crumbling desert community of Rancho Sin Vacas Sixteen year old Kendra hones her muscles and grapples with bad grammar occasionally worrying about her brother Thomas who spends all day watching wrestling on TV Their neighbour Merv is stuck in a rut still living at home at thirty and looking after his troubled mother When the strung out teenager from over the road Kendra's sometime boyfriend goes missing it affects them all in different and surprising ways And although Kendra is apparently unconcerned claiming that he's just run away she can't shake the feeling that something strange is in the air this summer Cracking the SAT Physics Subject Test Steven A. Leduc, 2005-03 Offers tips on preparation including advice on test taking strategy and studying for the test and provides two full length sample tests with explanatory answers **Mark's Journal**, **Nanofuture** J. Storrs Hall, Ph.D, 2010-05 Will the new scientific revolution of nanotechnology be for better or worse Readers will find out the likely reality from an expert Dr J Storrs Hall in this absorbing insider's guide to the near future **Quantum Leaps Explained: Unraveling The Mysteries Of Subatomic Particles** Charmaine Andrews, 2025-04-23 Are you ready to unlock the mysteries of the universe To journey into the heart of matter and understand the bizarre and beautiful world of quantum mechanics This book Quantum Leaps Explained Unraveling the Mysteries of Subatomic Particles is your guide to this captivating and often misunderstood realm Imagine a world where particles can be in multiple places at once where cats can be both dead and alive and where the act of observation can change the very nature of reality This is the realm of quantum mechanics a realm that governs the behavior of the smallest building blocks of the universe subatomic particles This book will equip you with the tools to navigate this strange and wonderful world demystifying complex concepts and presenting them in a way that is both accessible and engaging Forget dry textbooks and complicated equations Quantum Leaps Explained takes a fresh and engaging approach utilizing clear and concise language to explain the fundamental principles of quantum mechanics You will explore the mind bending concepts of superposition entanglement and quantum tunneling We'll delve into the lives of the pioneers who laid the groundwork for this revolutionary field from Planck and Bohr to Heisenberg and Schrödinger You'll discover how quantum mechanics

underpins our understanding of the world around us from the workings of lasers and transistors to the very fabric of space and time This isn't just a theoretical exploration Quantum Leaps Explained provides real world examples and applications of quantum mechanics demonstrating its profound impact on our lives and the future of technology You'll learn about the potential of quantum computing its role in medical breakthroughs and its influence on the development of new materials and energy sources Quantum Leaps Explained Unraveling the Mysteries of Subatomic Particles is more than just a book it's an invitation to expand your understanding of the universe Whether you're a curious student an aspiring scientist or simply someone with a thirst for knowledge this book will empower you to grasp the fundamentals of quantum mechanics engage with the mind bending implications and explore the vast potential of this revolutionary field **Schrödinger's Web**

Jonathan P. Dowling, 2020-08-24 As the race to build the world's first quantum computer is coming to an end the race to build the quantum internet has just started This book leverages the author's unique insights into both the Chinese and American quantum programs It begins with the physics and history of the quantum internet and ends with the latest results in quantum computing and quantum networks The Chinese quantum Sputnik moment The U.S. National Quantum Initiative What's up with Quantum Computing Supremacy The Race to Build the Quantum Internet Where will Quantum Technology be Tomorrow Written by a renowned quantum physicist this book is for everyone who is interested in the rapidly advancing field of Quantum Technology The Second Quantum Revolution The 2016 launch of the Chinese quantum satellite Mozi was a quantum Sputnik moment The United States went from thinking it was ten years ahead of the Chinese to the realization that it was ten years behind them This quantum gap led to the U.S. National Quantum Initiative launched in 2018 Since then the race to build the quantum internet has taken off at breakneck speed **The Lab Book** Darren Wershler, Lori Emerson, Jussi Parikka, 2022-03-22

An important new approach to the study of laboratories presenting a practical method for understanding labs in all walks of life From the Big Science of Bell Laboratories to the esoteric world of science chambers to university media labs to neighborhood makerspaces places we call labs are everywhere but how exactly do we account for the wide variety of ways that they produce knowledge More than imitations of science and engineering labs many contemporary labs are hybrid forms that require a new methodological and theoretical toolkit to describe The Lab Book investigates these vital creative spaces presenting readers with the concept of the hybrid lab and offering an extended and rare critical investigation of how labs have proliferated throughout culture Organized by interpretive categories such as space infrastructure and imaginaries The Lab Book uses both historical and contemporary examples to show how laboratories have become fundamentally connected to changes in the contemporary university Its wide reach includes institutions like the MIT Media Lab the Tuskegee Institute's Jesup Wagon ACTLab and the Media Archaeological Fundus The authors cover topics such as the evolution and delineation of lab based communities how labs tools and technologies contribute to defining their space and a glossary of key hybrid lab techniques Providing rich historical breadth and depth The Lab Book brings into focus a critical

but often misunderstood aspect of the contemporary arts and humanities

### **The Zoomable Universe** Caleb

Scharf,2017-10-17 An epic full color visual journey through all scales of the universe In *The Zoomable Universe* the award winning astrobiologist Caleb Scharf and the acclaimed artist Ron Miller take us on an epic tour through all known scales of reality from the largest possible magnitude to the smallest Drawing on cutting edge science they begin at the limits of the observable universe a scale spanning 10<sup>27</sup> meters about 93 billion light years And they end in the subatomic realm at 10<sup>-35</sup> meters where the fabric of space time itself confounds all known rules of physics In between are galaxies stars and planets oceans and continents plants and animals microorganisms atoms and much much more Stops along the way all enlivened by Scharf s sparkling prose and his original insights into the nature of our universe include the brilliant core of the Milky Way the surface of a rogue planet the back of an elephant and a sea of jostling quarks *The Zoomable Universe* is packed with more than 100 original illustrations and infographics that will captivate readers of every age It is a whimsical celebration of discovery a testament to our astounding ability to see beyond our own vantage point and chart a course from the farthest reaches of the cosmos to its subatomic depths in short a must have for the shelves of all explorers

### ***Killer Visual Strategies***

Amy Balliett,2020-06-30 Discover the foundation power and necessity of visual communication with this essential guide Visual communication has changed It s gone from being an optional medium for relaying information to an important method for building connections and increasing understanding We now use visual storytelling to help us establish and strengthen relationships engage distracted audiences and bring clarity to complexity *Killer Visual Strategies* examines how visual communication has transformed how brands connect with their customers and colleagues alike It looks at the growing audience demand for quality visual content and how organizations must meet this demand or risk being left behind *Killer Visual Strategies* traces the history of visual communication and explores why it now plays an integral role in our daily lives As Amy Balliett tells the story of this evolving medium she naturally incorporates visuals such as timelines and data visualizations throughout In addition to providing actionable rules to follow for creating high impact visual content Balliett also explores the latest trends including visual search augmented reality AR and virtual reality VR Then she looks forward to what lies ahead in this dynamic field The book s topics can benefit readers in a range of professions where visual content is now vital to sharing a message Learn best practices for visual communication Gain inspiration from countless visual examples Stay on top of the latest trends in visual communication Understand visual communication for marketing sales design HR and more *Killer Visual Strategies* provides a clearer picture of the evolution of visual communication as a fundamental part of how a story is told

### ***The God Problem*** Howard Bloom,2012-08-30

God s war crimes Aristotle s sneaky tricks Einstein s pajamas information theory s blind spot Stephen Wolfram s new kind of science and six monkeys at six typewriters getting it wrong What do these have to do with the birth of a universe and with your need for meaning Everything as you re about to see How does the cosmos do something it has long been thought only gods could achieve How

does an inanimate universe generate stunning new forms and unbelievable new powers without a creator How does the cosmos create That s the central question of this book which finds clues in strange places Why A does not equal A Why one plus one does not equal two How the Greeks used kickballs to reinvent the universe And the reason that Polish born Beno t Mandelbrot the father of fractal geometry rebelled against his uncle You ll take a scientific expedition into the secret heart of a cosmos you ve never seen Not just any cosmos An electrifyingly inventive cosmos An obsessive compulsive cosmos A driven ambitious cosmos A cosmos of colossal shocks A cosmos of screaming stunning surprise A cosmos that breaks five of science s most sacred laws Yes five And you ll be rewarded with author Howard Bloom s provocative new theory of the beginning middle and end of the universe the Bloom toroidal model also known as the big bagel theory which explains two of the biggest mysteries in physics dark energy and why if antimatter and matter are created in equal amounts there is so little antimatter in this universe Called truly awesome by Nobel Prize winner Dudley Herschbach The God Problem will pull you in with the irresistible attraction of a black hole and spit you out again enlightened with the force of a big bang Be prepared to have your mind blown From the Hardcover edition *Math & Physics Cheat Sheet for Stem Majors*

Wesolvethem,2017-07-21 Everything a college student needs to get through a modern STEM degree **Climate Travels** Michael M. Gunter, Jr.,2023-03-28 Winner 2023 Choice Outstanding Academic Title Winner 2023 Foreword INDIES Book of the Year Award in the category of Ecology and Environment Foreword Reviews Many accounts of climate change depict disasters striking faraway places melting ice caps fearsome hurricanes all consuming fires How can seeing the consequences of human impacts up close help us grasp how global warming affects us and our neighbors This book is a travelogue that spotlights what a changing climate looks like on the local level for wherever local happens to be Michael M Gunter Jr takes readers around the United States to bear witness to the many faces of the climate crisis He argues that conscientious travel broadens understanding of climate change and makes its dangers concrete and immediate Vivid vignettes explore the consequences for people and communities sea level rise in Virginia floods sweeping inland in Tennessee Maine lobsters migrating away from American territorial waters and imperiled ecosystems in national parks from Alaskan permafrost to the Florida Keys But Gunter finds inspiring initiatives to mitigate and adapt to these threats including wind turbines in a tiny Texas town green building construction in Kansas and walkable urbanism in Portland Oregon These projects are already making a difference and they underscore the importance of local action Drawing on interviews with government officials industry leaders and alternative energy activists Climate Travels emphasizes direct personal experience and the centrality of environmental justice Showing how travel can help bring the reality of climate change home it offers readers a hopeful message about how to take action on the local level themselves Global Networks of Power: Volume One Garrison C. Gibson,2012-03-05 Global Networks of Power captures an image of social and political substance of 2011 to early 2012 The U S Government has made Orwellian hate crimes legislation a general lever to intervene in politically incorrect crimes upon

special classes given the military the right to exfiltrate U S citizens without legal review to unspecified foreign torture facilities where they may disappear forever and has forced corporate medical insurance upon all citizens and sought to force all religious organizations to provide birth control paraphernalia to employees through insurers Following the attack on the rich in the World Trade Center in 2001 American democracy has been progressively stifled and wealth concentrated with onerous public debt building up along with high unemployment The need for ecological economic reforms are ignored and the government cannot even reform capitalism to benefit American individualism Gary C Gibson writes of contemporary affairs from his own point of view     *How to Seduce Your Soul* Jenay Zapparelli,2023-04-14 There has never been a book quite like this This handy guide confronts all million dollar questions taboo topics current events HIS story old programming uncomfortable truths Written through the conscious lens of a TRUTHER with an attitude it will meet you wherever you are take you by the hand walk you forward into your bliss even when you may be kicking screaming This book is about SOLUTIONS it can save the world by helping to make you a better person You best not sit this one out If you would like to know how to rise above all challenges in life make peace with your inner light so it will live in conjunction with you right here now always it s your lucky day There are no quick fixes in life but there are shortcuts tips tricks Your SOUL wants you to find out what they are Life can be challenging relationships can cause grief the world spins spits off sparks of fire that burn us We the people of both the USA the rest of the domesticated globe have fallen victim to being a victim to our own problems The Soul has gone unnoticed unrecognized unfed We are starving her she is suffocating in the box we have trapped her in Learning to live free happy here on this planet can only happen with the Soul s cooperation We cannot force the best self into our human vessel or the good life into our experience We must draw them to the surface charm them into existence seduce them to BE YOU are a magical being of miracle light Act like it Don t wait Buy NOW BookonFire Press In Love We Trust Circa 21st Century     **Corporate Citizenship and Sustainability** Jayaraman Rajah Iyer,2020-07-13 Progress of corporate history since the industrial revolution has been an enormous growth in freedom of enterprise economic prosperity innovation technical and intellectual advancement but it has also been stoking the passions of greed a slow and sure decay of morality and social order culminating in high unemployment and Occupy Wall Street movements Business enterprise is a profound thought of good intentions towards the society which sets apart corporate culture over individual choice A culture is a function of true knowledge of awareness an identity with the ethical responsibility that by which corporate infers and society teaches Immanuel Kant raised the question whether a science of metaphysics with a logical structure like that of the well established mathematical and measuring ethical assets usage is crucial for corporate to bring the abstractions into reality acknowledge value where value is due and deconstruct what is valueless This book addresses these issues effectively by subject object distinction of qualitative and quantitative elements of management what Kant had pleaded for     Consulting in Uncertainty Ann Brooks,Kathy Edwards,2013-11-07 The traditional model of consulting places an emphasis on diagnosing

a problem and finding a cure But in today s business world of globalized organizations rapid knowledge proliferation and the intertwining of economies that approach is becoming less and less viable problems are quickly redefined new knowledge and ownership of that knowledge is constantly surfacing and being challenged and no solution is a permanent solution Consulting in Uncertainty articulates a model of consulting that addresses the uncertainty and interconnectedness of the world in a post industrial knowledge era Emphasizing outcomes and inquiry over diagnosis Brooks and Edwards outline this new consulting model as well as the skills consultants must bring to the table in any uncertain and dynamic environment Integrating practical knowledge with scholarship this book covers skills such as Relational skills and the consulting relationship Cultural awareness and related skills Contextual analysis Facilitating inquiry Collecting and efficiently analyzing data or information Consultants and students of consulting as well as managers teachers counselors and even parents will find this book enlightening and useful in navigating today s uncertain world      **Outlook** Alfred Emanuel Smith, Francis Walton, 1873

*Current Awareness Abstracts* ,2001

**The Fountain of Hope** Douglas R. Safarik, 2012-09



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