

Essential Tool for Physics Laws, Concepts, Variables and Equations including ~ Sample Problems, ~ Common Pitfalls and ~ Helpful Hints

## BASICS

### A. Units for Physical Quantities

Base Units	Symbol	Unit
Length	$L, x$	Meter - m
Mass	$m, M$	Kilogram - kg
Temperature	$T$	Kelvin - K
Time	$t$	Second - s
Electric Current	$I$	Ampere - A (C/s)
Derived Units	Symbol	Unit
Acceleration	$a$	$m/s^2$
Ang. Accel.	$\alpha$	radian/ $s^2$
Ang. Momentum	$L$	$kg \cdot m^2/s$
Ang. Velocity	$\omega$	radian/sec
Angle	$\theta, \varphi$	radian
Capacitance	$C$	Farad F (C/V)
Charge	$Q, q, e$	Coulomb C (A·s)
Density	$\rho$	$kg/m^3$
Displacement	$s, d, h$	meter - m
Electric Field	$E$	V/m
Electric Flux	$\Phi_E$	V·m
Electromotive Force (EMF)	$\mathcal{E}$	Volt - V
Energy	$E, U, K$	Joule J ( $kg \cdot m^2 \cdot s^{-2}$ )
Entropy	$S$	J/K
Force	$F$	Newton - N ( $kg \cdot m/s^2 = J/m$ )
Frequency	$f, \nu$	Hertz - Hz (cycle/s)
Heat	$Q$	Joule - J
Magnetic Field	$B$	Tesla (Wb/ $m^2$ )
Magnetic Flux	$\Phi_B$	Weber Wb ( $kg \cdot m^2/A \cdot s^2$ )
Momentum	$p$	$kg \cdot m/s$
Potential	$V$	Voltage V (J/C)
Power	$P, \mathcal{P}$	Watt - W (J/s)
Pressure	$P$	Pascal - Pa ( $N/m^2$ )
Resistance	$R$	Ohm $\Omega$ (V/A)
Torque	$\tau$	N·m
Velocity	$v$	m/s
Volume	$V$	$m^3$
Wavelength	$\lambda$	meter - m
Work	$W$	Joule - J (N·m)

### B. Fundamental Physical Constants

Base Units	Symbol	Unit
Mass of electron	$m_e$	$9.11 \times 10^{-31} \text{ kg}$
Mass of proton	$m_p$	$1.67 \times 10^{-27} \text{ kg}$
Avogadro Constant	$N_A$	$6.022 \times 10^{23} \text{ mol}^{-1}$
Elementary charge	$e$	$1.602 \times 10^{-19} \text{ C}$
Faraday constant	$F$	$96,485 \text{ C/mol}$
Speed of light	$c$	$3 \times 10^8 \text{ m/s}^{-1}$
Molar Gas Constant	$R$	$8.314 \text{ J/mol} \cdot \text{K}^{-1}$
Boltzmann Constant	$k$	$1.38 \times 10^{-23} \text{ J/K}^{-1}$
Gravitation Constant	$G$	$6.67 \times 10^{-11} \text{ m}^2 \cdot \text{kg}^{-1} \cdot \text{s}^{-2}$
Permeability of Space	$\mu_0$	$4\pi \times 10^{-7} \text{ N/A}^2$
Permittivity of Space	$\epsilon_0$	$8.85 \times 10^{-12} \text{ F/m}$

### C. Conversion factors and alternative units

	Unit	Description
Angle	$^\circ$ (degree)	$180^\circ = \pi \text{ rad}$
Energy	Erg	CGS unit ( $g \cdot cm^2/s^2$ ) $1 \text{ erg} = 10^{-7} \text{ J}$
Energy	Electron Volt	$1 \text{ eV} = 1.602 \times 10^{-19} \text{ J}$
Force	Dyne	CGS unit ( $g \cdot cm/s^2 = \text{erg/cm}$ ) $1 \text{ dyne} = 10^{-5} \text{ N}$
Volume	Liter	$1 \text{ L} = 1 \text{ dm}^3$
Pressure	Bar	$1 \text{ Bar} = 10^5 \text{ Pa}$
Length	Angstrom	$1 \text{ \AA} = 1 \times 10^{-10} \text{ m}$

## MATHEMATICAL CONCEPTS

### A. Vector Algebra

1. **Vector:** Denotes directional character using (x, y, z) components (Fig. 1)

a. Unit vectors:  $\hat{i}$  along x;  $\hat{j}$  along y;  $\hat{k}$  along z  
b. Vector  $A = A_x \hat{i} + A_y \hat{j} + A_z \hat{k}$

c. Length of  $A = |A| = \sqrt{A_x^2 + A_y^2 + A_z^2}$

2. **Addition of vectors  $A$  &  $B$ :** add components:  
 $A + B = (A_x + B_x)\hat{i} + (A_y + B_y)\hat{j} + (A_z + B_z)\hat{k}$

~ Sample Addition and Length Calculations:

$$A = 3\hat{i} + 4\hat{j} - 3\hat{k} \quad |A| = \sqrt{9 + 16 + 9}$$

$$= \sqrt{34} = 5.83$$

$$B = -2\hat{i} + 6\hat{j} + 5\hat{k} \quad |B| = \sqrt{4 + 36 + 25}$$

$$= \sqrt{65} = 8.06$$

$$A + B = \hat{i} + 10\hat{j} + 2\hat{k} \quad |A + B| = \sqrt{1 + 100 + 4}$$

$$= \sqrt{105} = 10.25$$

Note:  $|A| + |B| \geq |A + B|$

3. **Multiply  $A$  &  $B$ :**

a. **Dot or scalar product:**  $A \cdot B = |A||B|\cos\theta = (A_x B_x + A_y B_y + A_z B_z)$

Note:  $\theta$  is the angle between  $A$  and  $B$ ;  
 $A \cdot B = 0$ , if  $\theta = \pi/2$  (Fig. 2)

~ Sample: Scalar product:

$$A = 3\hat{i} + 4\hat{j} \quad B = 3\hat{i} + 5\hat{j}$$

$$A \cdot B = 3 \times 3 + 4 \times 5 = 9 + 20 = 29$$

$$|A| = \sqrt{25} = 5 \quad |B| = \sqrt{34} = 5.83$$

$$|B| = \sqrt{9 + 25} = \sqrt{34} = 5.83$$

$$\cos\theta = \frac{A \cdot B}{|A||B|} = \frac{29}{5 \times 5.83} = 0.99$$

$$\theta = \cos^{-1}(0.99) = 3^\circ = 0.2 \text{ rad} \quad \text{Fig. 3}$$

### b. Cross or Vector Product:

$$C = A \times B = |A||B|\sin\theta \hat{n}$$

$\theta$  = Angle between  $A$  and  $B$ ; vector  $n$  is perpendicular to  $A$  and  $B$

$$A \times B = \begin{vmatrix} \hat{i} & \hat{j} & \hat{k} \\ A_x & A_y & A_z \\ B_x & B_y & B_z \end{vmatrix}$$

~ Sample: Vector Product:

$$A = 2\hat{i} + \hat{j} \quad B = \hat{i} + 3\hat{j}$$

$$A \times B = \begin{vmatrix} \hat{i} & \hat{j} & \hat{k} \\ 2 & 1 & 0 \\ 1 & 3 & 0 \end{vmatrix} = (6 - 1)\hat{k} = 5\hat{k}$$

- If  $A$  and  $B$  are in  $x-y$  plane,  $A \times B$  is along the  $+z$  direction

-  $\theta$  is the angle formed by  $A$  &  $B$ :  $\sin\theta = \frac{|C|}{|A||B|}$

$$\text{Given: } |A| = \sqrt{5} \quad |B| = \sqrt{10} \quad |C| = 5$$

$$\sin\theta = 5 / (\sqrt{5} \times \sqrt{10}) = 5 / \sqrt{50} = 1 / \sqrt{2}$$

$$\therefore A \cdot B: \theta = 45^\circ = \pi/2 \text{ radians}$$

c. The **Right-Hand rule** gives the orientation of vector  $n$  (Fig. 4)

### B. Trigonometry

1. **Basic relations for a triangle** (Fig. 5)

$$\sin\theta = \frac{y}{r}$$

$$\cos\theta = \frac{x}{r}$$

$$\tan\theta = \frac{y}{x} = \frac{\sin\theta}{\cos\theta}$$

$$\sin^2\theta + \cos^2\theta = 1$$

2. **Sine and Cos waves**

$$\text{Fig. 6}$$

Values Of sin, cos and tan

$\theta$ rad [ $^\circ$ ]	$\sin\theta$	$\cos\theta$	$\tan\theta$
0 [0]	0.00	1.00	0.00
$\pi/6$ [30]	0.50	0.866	0.577
$\pi/4$ [45]	0.707	0.707	1.00
$\pi/3$ [60]	0.866	0.50	1.732
$\pi/2$ [90]	1.00	0.00	$\infty$
$\pi$ [180]	0.00	-1.00	0.00

sin and cos waves



# Mastering Physics Solutions Chapter 9

**Jean-Cyrille Hierso**



## **Mastering Physics Solutions Chapter 9:**

Mastering Physics Martin Harrison, Frank McKim, 1999-11-11 This new edition of Mastering Physics has been completely updated and rewritten to give all the information needed to learn and master the essentials of physics It is a self contained clearly explained course for individual study or classroom use which requires no prior knowledge The book is highly illustrated throughout to show the importance of physics in the natural world as well as in such fields as athletics engineering medicine and music Questions and examples are also included throughout covering a broad range of topics such as environmental issues motor racing and space flight

**The Ultimate Guide to SAT II Physics Exam** Pasquale De Marco, 2025-04-09 The Ultimate Guide to SAT II Physics Exam is your ultimate weapon in conquering this pivotal assessment Our team of experienced educators and accomplished test takers has meticulously crafted this comprehensive guide to address every aspect of the exam ensuring that you emerge victorious Within this volume you will find an exhaustive overview of the SAT II Physics Exam including its format scoring system and the key concepts that form its foundation We delve into the intricacies of motion and forces waves and optics electricity and magnetism and thermodynamics and modern physics unraveling the mysteries of each topic with clarity and precision Beyond content mastery we equip you with a formidable arsenal of effective strategies and techniques to tackle the diverse question types encountered on the exam Decipher complex word problems interpret data with accuracy and apply formulas with confidence We guide you in developing a systematic approach to problem solving transforming even the most daunting questions into opportunities for triumph Recognizing the importance of practice in the pursuit of excellence we have compiled an abundance of practice questions and mock exams meticulously aligned with the actual exam These invaluable resources provide ample opportunities to assess your strengths identify areas for improvement and refine your exam taking strategies The Ultimate Guide to SAT II Physics Exam is more than just a study guide it s your trusted companion on the path to academic success Embrace the challenge delve into the depths of physics and unlock your full potential Seize the opportunity to excel in this pivotal assessment and open doors to a brighter future If you like this book write a review

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*Physics: A Comprehensive Guide*  
Pasquale De Marco, 2025-04-06 Physics A Comprehensive Guide is the ultimate resource for anyone seeking a comprehensive understanding of the physical world This book covers all the essential concepts of physics from the fundamental laws of motion to the frontiers of modern physics With clear explanations engaging examples and thought provoking exercises this book makes physics accessible and enjoyable for students lifelong learners and anyone curious about the world around them

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You may already be familiar with other data preparation and transformation technologies such as T SQL SSIS Azure Data Factory Informatica etc Power Query is a data transformation engine capable of preparing the data in the format you need The good news is that to learn Power Query you don t need to know programming Power Query is for citizen data engineers However this doesn t mean that Power Query is not capable of performing advanced transformation Power Query exists in many Microsoft tools and services such as Power BI Excel Dataflows Power Automate Azure Data Factory etc Through the years this engine became more powerful These days we can say this is essential learning for anyone who wants to do data analysis with Microsoft technology to learn Power Query and master it We have been working with Power Query since the very early release of that in 2013 named Data Explorer and wrote blog articles and published videos about it The number of articles we published under this subject easily exceeds hundreds Through those articles some of the fundamentals and key learnings of Power Query are explained We thought it is good to compile some of them in a book series A good analytics solution combines a good data model good data preparation and good analytics and calculations Reza has written another book about the Basics of modeling in Power BI and a book on Power BI DAX Simplified This book is covering the data preparation and transformations aspects of it This book series is for you if you are building a Power BI solution Even if you are just visualizing the data preparation and transformations are an essential part of analytics You do need to have the cleaned and prepared data ready before visualizing it This book is compiled into a series of two books which will be followed by a third book later Getting started with Power Query in Power BI and Excel already available to be purchased separately Mastering Power Query in Power BI and Excel This book Power Query dataflows will be published later This book deeps dive into real world challenges of data transformation It starts with combining data sources and continues with aggregations and fuzzy operations The book covers advanced usage of Power Query in scenarios such as error handling and exception reports custom functions and parameters advanced analytics and some helpful table and list functions The book continues with some performance tuning tips and it also explains the Power Query formula language M and the structure of it and how to use it in practical solutions Although this book is written for Power BI and all the examples are presented using the Power BI However the examples can be easily applied to Excel Dataflows and other tools and services using Power Query

**Competitive Physics: Thermodynamics, Electromagnetism And Relativity** Jinhui Wang, Bernard Ricardo Widjaja, 2018-12-11 Written by a former Olympiad student Wang Jinhui and a Physics Olympiad national trainer Bernard Ricardo Competitive Physics delves into the art of solving challenging physics puzzles This book not only expounds a multitude of physics topics from the basics but also illustrates how these theories can be applied to problems often in an elegant fashion With worked examples that depict various problem solving sleights of hand and interesting exercises to enhance the mastery of such techniques readers will hopefully be able to develop their own insights and be better prepared for physics competitions Ultimately problem solving is a craft that requires much intuition Yet this intuition perhaps can only

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*Numerical Methods Unraveled: Mastering Computational Techniques* Pasquale De Marco,2025-07-20 In the realm of scientific inquiry and engineering endeavors numerical methods stand as indispensable tools empowering researchers engineers and scientists to delve into complex problems that defy analytical solutions *Numerical Methods Unraveled Mastering Computational Techniques* is a comprehensive guide to the fundamentals and applications of numerical methods unlocking the power of computation for problem solving and discovery Through clear explanations engaging examples and hands on exercises this book takes readers on a journey from the basic concepts of numerical methods to advanced techniques employed in various scientific disciplines It covers a wide spectrum of topics including linear systems nonlinear equations interpolation and approximation differential equations optimization and numerical linear algebra With a strong emphasis on practical implementation the book provides detailed instructions for using popular software packages such as MATLAB Python and C to implement numerical methods This hands on approach enables readers to apply the learned techniques to their own research and projects fostering a deeper understanding and appreciation for the power of computational methods Recognizing the dynamic nature of the field the book dedicates a chapter to the frontiers of numerical methods exploring emerging techniques such as machine learning quantum computing and high performance

computing These cutting edge developments provide a glimpse into the future of numerical methods and their potential to revolutionize diverse fields of science and engineering Numerical Methods Unraveled Mastering Computational Techniques is an essential resource for students researchers engineers and anyone seeking to master the art of numerical methods and unlock the power of computation in their respective fields Its comprehensive coverage engaging narrative and practical orientation make it an invaluable guide to the ever expanding world of numerical methods If you like this book write a review

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textbook provides a concise and cohesive introduction to plasma physics theory and offers a solid foundation for students of physics wishing to take higher level courses in plasma physics Mathematically Rigorous but Driven by Physics The author provides an in depth discussion of the various fluid theories typically used in plasma physics presenting non relativistic fully ionized nondegenerate quasi neutral and weakly coupled plasma This second edition has been fully updated to include new content on collisions and magnetic reconnection It contains over 80 exercises carefully selected for their pedagogical value with fully worked out solutions available in a separate solutions manual for professors The material presents a number of applications and works through specific topics including basic plasma parameters the theory of charged particle motion in inhomogeneous electromagnetic fields collisions plasma fluid theory electromagnetic waves in cold plasmas electromagnetic wave propagation through inhomogeneous plasmas kinetic theory magnetohydrodynamical fluid theory and magnetic reconnection Features Discusses fluid theory illustrated by the investigation of Langmuir sheaths Explores charged particle motion illustrated by the investigation of charged particle trapping in the earth s magnetosphere Examines the MHD and WKB theories

**Conquering Math: Unlocking the Secrets of Advanced Mathematics** Pasquale De Marco, 2025-04-07

In the realm of mathematics where numbers dance and equations sing lies a hidden world of complexity and beauty waiting to be explored Conquering Math Unlocking the Secrets of Advanced Mathematics is your passport to this extraordinary realm a comprehensive guide that will empower you to conquer even the most daunting mathematical challenges Written in a clear and engaging style this book takes you on a journey through the fascinating world of advanced mathematics from the fundamentals of algebra and geometry to the complexities of calculus statistics and beyond With each chapter you ll delve deeper into the intricacies of mathematical concepts gaining a profound understanding of their applications in science technology and everyday life More than just a textbook Conquering Math is an immersive learning experience filled with captivating stories real world examples and thought provoking exercises that bring mathematical concepts to life You ll encounter intriguing puzzles solve problems that have perplexed mathematicians for centuries and explore the beauty and elegance of mathematical theorems Whether you re a student seeking to master advanced mathematics a professional looking to expand your knowledge or simply a curious mind eager to explore the frontiers of human understanding Conquering Math is your ultimate companion Open its pages and embark on an intellectual adventure that will transform your perception of the world around you Within these pages you ll discover A comprehensive exploration of advanced mathematical concepts explained in a clear and accessible manner Engaging examples and thought provoking exercises that bring mathematical concepts to life Real world applications of advanced mathematics in science technology and everyday life Captivating stories and historical anecdotes that illuminate the beauty and significance of mathematics Conquering Math is more than just a book it s an invitation to embark on a lifelong journey of mathematical discovery Embrace the challenge unlock the secrets of advanced mathematics and experience the transformative power of numbers and equations If you like

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High Resolution NMR Spectroscopy Jean-Cyrille Hierso,2013-06-08 Spin spin coupling constant J provides decisive data for organic compound characterization This electron mediated coupling is usually taught as transmitted between covalently bonded magnetic atoms However this physical interaction between nuclear spins is much more complex than that with regard to chemical bonding concept Independent experimental and theoretical studies related to small organic and organometallic species molecular mass below 2000gmol<sup>-1</sup> have highlighted the existence of J couplings operating via clearly nonbonded interactions and known as through space couplings Interactions of this type are frequently reported and couplings involving <sup>19</sup>F <sup>13</sup>C <sup>77</sup>Se <sup>15</sup>N <sup>31</sup>P or <sup>1</sup>H in hydrogen bonding are now clearly identifiable This chapter aims to clarify this phenomenon often poorly known by routine users of NMR Thus nonbonded spin couplings can provide critical data for studying and determining molecular structures both in solution and in the solid state This is illustrated herein

through selected examples picked in different families of small organic and organometallic compounds

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