

# General Physics 1

## VECTOR AND SCALAR QUANTITIES

### Vector Quantity

- Is a physical quantity that has **both magnitude and direction**.

Examples:

- Displacement of 20m (North)
- Velocity of 60 km/h (East)
- Force of 40 Newton (West)



### Scalar Quantity

- Is a physical quantity that has only magnitude.

Examples:

- Speed of 60 km/h
- Time of 3 hours
- Temperature of 38 °C



### Vectors

- We always draw a vector as a line with an arrowhead at its tip.
- The **length of the line** shows the vector's magnitude, and the **direction of the line** shows the vector's direction.



### Displacement

- Displacement represent a vector quantity such as displacement by a single letter,  $\vec{A}$ .
- This symbol is in **boldface italic type with an arrow** above them, to represent that it have different properties from scalar quantities, the arrow is a reminder that **vectors** have direction.
- Displacement is always a straight-line segment directed from the starting point to the ending point, even though the object's actual path may be curved.
- If two vectors have the same direction, they are **parallel**.
- If they have the same magnitude and the same direction, they are **equal**, no matter where they are located in space.



# Conceptual Physics Study Guide Projectiles

**Franklin S. Allaire, Jennifer E. Killham**



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**Teaching and Learning Online** Franklin S. Allaire,Jennifer E. Killham,2023-01-01 Science is unique among the disciplines since it is inherently hands on However the hands on nature of science instruction also makes it uniquely challenging when teaching in virtual environments How do we as science teachers deliver high quality experiences to secondary students in an online environment that leads to age grade level appropriate science content knowledge and literacy but also collaborative experiences in the inquiry process and the nature of science The expansion of online environments for education poses logistical and pedagogical challenges for early childhood and elementary science teachers and early learners Despite digital media becoming more available and ubiquitous and increases in online spaces for teaching and learning Killham et al 2014 Wong et al 2018 PreK 12 teachers consistently report feeling underprepared or overwhelmed by online learning environments Molnar et al 2021 Seaman et al 2018 This is coupled with persistent challenges related to elementary teachers lack of confidence and low science teaching self efficacy Brigido Borrachero Bermejo Gunning Duran Duran 2004 Ideal for undergraduate teacher candidates graduate students teacher educators classroom teachers parents and administrators this book addresses why and how teachers use online environments to teach science content and work with elementary students through a research based foundation *Student Study Guide & Selected Solutions Manual* David D. Reid,2007 Comparative Study Using Technology Vs Traditional Learning in High School Conceptual Physics David Kim McCreight,1999 **Conceptual Physics--a New Introduction to Your Environment** ,1981 **Instructor's Manual [to Accompany] Conceptual Physics, Eighth Ed** Paul G. Hewitt,1998 Conceptual Physics Tenth Edition helps readers connect physics to their everyday experiences and the world around them with additional help on solving more mathematical problems Hewitt s text is famous for engaging readers with analogies and imagery from real world situations that build a strong conceptual understanding of physical principles ranging from classical mechanics to modern physics With this strong foundation readers are better equipped to understand the equations and formulas of physics and motivated to explore the thought provoking exercises and fun projects in each chapter Included in the package is the workbook Mechanics Properties of Matter Heat Sound Electricity and Magnetism Light Atomic and Nuclear Physics Relativity For all readers interested in conceptual physics Study Guide, Student Solutions Manual Raymond A. Serway,John R. Gordon,1998 Preparation for Introductory College Physics Jon A. Celesia,1998 This light hearted guide prepares students to be successful in any introductory physics course As students work through the guide they will discover the cool nature of the physical world and find out that physics can be fun While this tutorial may be used with any text it is inspired by and closely follows Physics The Nature of Things by Susan M Lea and John Robert Burke Brooks Cole Publishing *Study Guide with ActivPhysics* Alan Van

Heuvelen, Richard Wolfson, Jay M. Pasachoff, 1999      Student Solutions Manual and Study Guide to Accompany Physics for Scientists and Engineers John R. Gordon, Raymond A. Serway, 2004 Written by John R Gordon Ralph McGrew and Raymond Serway the two volume manual features detailed solutions to 20 percent of the end of chapter problems from the text This manual also features a list of important equations concepts and answers to selected end of chapter questions      **High School Physics** Cynthia R. Hynd, 1995      **A Student's Guide Through the Great Physics Texts** Kerry Kuehn, 2015-12-14 This book provides a chronological introduction to the electromagnetic theory of light using selected extracts from classic texts such as Gilbert's De Magnete Franklin's Experiments and Observations on Electricity and Huygens Treatise on Light Particular attention is given to the works of Faraday Maxwell and Heaviside scientists who unified the formerly separate disciplines of electricity magnetism and light Their electromagnetic theory developed during the 19th century would lead to the invention of modern radar electrical power grids and telecommunication networks Each chapter of this book begins with a short introduction followed by a reading selection Carefully crafted study questions draw out key points in the text and focus the reader's attention on the author's methods analysis and conclusions Numerical and laboratory exercises at the end of each chapter test the reader's ability to understand and apply key concepts from the text Electricity Magnetism and Light is the third of four volumes in A Student's Guide through the Great Physics Texts This book grew out of a four semester undergraduate physics curriculum designed to encourage a critical and circumspect approach to natural science while at the same time preparing students for advanced coursework in physics This book is particularly suitable as a college level textbook for students of the natural sciences history or philosophy It can also serve as a textbook for advanced high school or home schooled students or as a thematically organized source book for scholars and motivated lay readers In studying the classic scientific texts included herein the reader will be drawn toward a lifetime of contemplation      Learning and Understanding National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Committee on Programs for Advanced Study of Mathematics and Science in American High Schools, 2002-08-06 This book takes a fresh look at programs for advanced studies for high school students in the United States with a particular focus on the Advanced Placement and the International Baccalaureate programs and asks how advanced studies can be significantly improved in general It also examines two of the core issues surrounding these programs they can have a profound impact on other components of the education system and participation in the programs has become key to admission at selective institutions of higher education By looking at what could enhance the quality of high school advanced study programs as well as what precedes and comes after these programs this report provides teachers parents curriculum developers administrators college science and mathematics faculty and the educational research community with a detailed assessment that can be used to guide change within advanced study programs      **RealTime Physics: Active Learning Laboratories, Module 1** David R. Sokoloff, Ronald K. Thornton, Priscilla W. Laws, 2011-11-15 The authors of RealTime

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Multifaceted Graphics for Learning Tingyi S. Lin,2006      **Reading Hobbes Backwards** Patricia Springborg,2024-10-16  
Reading Hobbes Backwards treats Thomas Hobbes 1588 1679 as a peace theorist who from early manuscripts of his system made by disciples in England and France to the late *Historia Ecclesiastica* saw sectarianism and Trinitarian doctrines supporting the papal monarchy as the ultimate cause of the punishing religious wars of the post Reformation But Hobbes was also indebted to scholasticism and the millennia old Aristotle commentary tradition Greek Byzantine Jewish and Islamic surviving in the universities of Paris and Oxford naming his English *Politiques* *Leviathan* after the scaly monster of the Book of Job perhaps as a decoy Politically connected through Cavendish circles and the Virginia Company Hobbes was a courtier s client who until *Leviathan* could not speak in his own voice Adept at political surrogacy he authored satires and burlesques which he could own or disown while promoting the moral education of classical civic humanism against sectarianism The Appendix provides a synopsis of his relatively inaccessible Latin Church History an exercise in clandestine philosophy from which Hobbes s intentions in *Leviathan* can be read off Chapters are referenced and cross referenced to be read independently serving both as reference work and text book      **Physics for Global Scientists and Engineers, Volume 2**  
Raymond A. Serway,John W. Jewett,Wayne (California State Polytechnic University Rowlands, Pomona),Kate Wilson,Wayne Rowlands,Anna (University of Canberra Wilson, Australian National University),2016-10-01 This second edition of Serway s *Physics For Global Scientists and Engineers* is a practical and engaging introduction for students of calculus based physics Students love the Australian Asia Pacific and international case studies and worked examples concise language and high quality artwork in two easy to carry volumes NEW key topics in physics such as the Higgs boson engage students and keep them interested NEW Maths icons highlight mathematical concepts in the text and direct students to the relevant information in the Maths Appendix NEW Index of Symbols provides students with a quick reference for the symbols used throughout the book This volume two includes Electricity and magnetism Light and optics and Quantum physics Volume one covers Mechanics Mechanical properties of solids and fluids Oscillations and mechanical waves and Thermodynamics

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development of digital competencies This volume attests to the spreading of the new CLIL literacy in the frame of pluriliteracies and derives theoretical reflections from case studies and experiential reports thus addressing both academic and school instructors It combines research from international CLIL experts with the critical perspectives of academics not directly involved in its instruction *College Physics Textbook Equity Edition Volume 1 of 3: Chapters 1 - 12* An OER from Textbook Equity,2014-01-13 Authored by Openstax College CC BY An OER Edition by Textbook Equity Edition 2012 This text is intended for one year introductory courses requiring algebra and some trigonometry but no calculus College Physics is organized such that topics are introduced conceptually with a steady progression to precise definitions and analytical applications The analytical aspect problem solving is tied back to the conceptual before moving on to another topic Each introductory chapter for example opens with an engaging photograph relevant to the subject of the chapter and interesting applications that are easy for most students to visualize For manageability the original text is available in three volumes Full color PDF s are free at [www.textbookequity.org](http://www.textbookequity.org)

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