

# Proportional Reasoning

Proportional reasoning is a method we use to understand how the size of a value will change based on changes we make to variables in its equation. Proportional reasoning allows us to compare the size of different values even if we do not know their actual number values.

## Steps to Solve a Proportional Reasoning Problem:

- 1 Write an equation for the original variable that will be affected by the change in the other variable.
- 2 Write an equation for the new variable.
- 3 Isolate the original function in the new function by factoring out any new numbers.

## Example 2:

A force of gravity  $F$  acts between two masses  $m_1$  and  $m_2$  with a distance  $r$  between them. If we tripled the distance and doubled the mass  $m_1$ , what would the mass of the second object need to be to make a force of gravity four times as strong as the original?

$$F = \frac{Gm_1m_2}{r^2} \quad m_{2o} = \frac{F r^2}{Gm_1}$$

# Reasoning In Physics

**Andrzej Sokolowski**



## **Reasoning In Physics:**

**Reasoning in Physics** L. Viennot, 2007-05-08 For a meaningful understanding of physics it is necessary to realise that this corpus of knowledge operates in a register different from natural thought This book aims at situating the main trends of common reasoning in physics with respect to some essential aspects of accepted theory It analyses a great many research results based on studies of pupils and students at various academic levels involving a range of physical situations It shows the impressive generality of the trends of common thought as well as their resistance to teaching The book's main focus is to underline to what extent natural thought is organised As a result of this mapping out of trends of reasoning some suggestions for teaching are presented these have already influenced recent curricula in France This book is intended for teachers and teacher trainers principally but students can also benefit from it to improve their understanding of physics and of their own ways of reasoning

**Understanding Physics Using Mathematical Reasoning** Andrzej Sokolowski, 2021-08-20 This book speaks about physics discoveries that intertwine mathematical reasoning modeling and scientific inquiry It offers ways of bringing together the structural domain of mathematics and the content of physics in one coherent inquiry Teaching and learning physics is challenging because students lack the skills to merge these learning paradigms The purpose of this book is not only to improve access to the understanding of natural phenomena but also to inspire new ways of delivering and understanding the complex concepts of physics To sustain physics education in college classrooms authentic training that would help develop high school students skills of transcending function modeling techniques to reason scientifically is needed and this book aspires to offer such training The book draws on current research in developing students mathematical reasoning It identifies areas for advancements and proposes a conceptual framework that is tested in several case studies designed using that framework Modeling Newton's laws using limited case analysis Modeling projectile motion using parametric equations and Enabling covariational reasoning in Einstein formula for the photoelectric effect represent some of these case studies A wealth of conclusions that accompany these case studies drawn from the realities of classroom teaching is to help physics teachers and researchers adopt these ideas in practice

**Reasoning in Physics** Laurence Viennot, 2001-11-30 For a meaningful understanding of physics it is necessary to realise that this corpus of knowledge operates in a register different from natural thought This book aims at situating the main trends of common reasoning in physics with respect to some essential aspects of accepted theory It analyses a great many research results based on studies of pupils and students at various academic levels involving a range of physical situations It shows the impressive generality of the trends of common thought as well as their resistance to teaching The book's main focus is to underline to what extent natural thought is organised As a result of this mapping out of trends of reasoning some suggestions for teaching are presented these have already influenced recent curricula in France This book is intended for teachers and teacher trainers principally but students can also benefit from it to improve their understanding of physics and of their own ways of reasoning

**Reasoning About Luck** Vinay Ambegaokar, 2017-01-18 This book introduces college students and other readers to the uses of probability and statistics in the physical sciences focusing on thermal and statistical physics and touching upon quantum physics. Widely praised as beautifully written and thoughtful, *Reasoning About Luck* explains concepts in a way that readers can understand and enjoy even students who are not specializing in science and those outside the classroom only some familiarity with basic algebra is necessary. Attentive readers will come away with a solid grasp of many of the basic concepts of physics and some excellent insights into the way physicists think and work. If students who are not majoring in science understood no more physics than that presented by Ambegaokar, they would have a solid basis for thinking about physics and the other sciences. *Physics Today* There is a real need for rethinking how we teach thermal physics at all levels but especially to undergraduates. Professor Ambegaokar has done just that and given us an outstanding and ambitious textbook for nonscience majors. I find Professor Ambegaokar's style throughout the book to be graceful and witty with a nice balance of both encouragement and admonishment. *American Journal of Physics*

**Theoretical Concepts in Physics** M. S. Longair, 1984 In this highly individual and truly novel approach to theoretical reasoning in physics, the author has provided a course that illuminates the subject from the standpoint of real physics as practised by research scientists. Professor Longair gives the basic insights, attitudes, and techniques that are the tools of the professional physicist in a manner that conveys the intellectual excitement and beauty of the subject. The book is intended to be a supplement to more traditional courses for physics undergraduates and the author assumes that his readers already have some knowledge of the main branches of physics. As the story unfolds, much of the core material of an undergraduate course in physics is reviewed from a more mature point of view. This is not in fact a substitute for existing texts. Rather, it goes beyond them by improving the student's appreciation of the subject. *College Physics* Nicholas Giordano, 2015

**Thinking in Physics** Laurence Viennot, 2014-03-18 Read this book if you care about students really understanding physics and getting genuine intellectual satisfaction from doing so. Read it too if you fear that this goal is out of reach; you may be surprised. Laurence Viennot here shows ways to deal with the awkward fact that common sense thinking is often not the same as scientific thinking. She analyses examples of frequent and widespread errors and confusions which provide a real eye opener for the teacher. More than that, she shows ways to avoid and overcome them. The book argues against over-emphasis on fun applications, demonstrating that students also enjoy and value clear thinking. The book has three parts: making sense of special scientific ways of reasoning, words, images, functions, making connections between very different topics, each illuminating the other, simplifying, looking for consistency and avoiding incoherent over-simplification. The book is enhanced with supplementary online materials that will allow readers to further expand their teaching or research interests and think about them more deeply. *Readings in Qualitative Reasoning about Physical Systems* Daniel S. Weld, Johan De Kleer, 1990 The ability to reason qualitatively about physical systems is important to understanding and interacting with the world for both humans

and intelligent machines Accordingly this study has become an important subject of research in the artificial intelligence and cognitive science communities The goal of qualitative physics as the field is sometimes known is to capture both the commonsense knowledge of the person on the street and the tacit knowledge underlying the quantitative knowledge used by engineers and scientists Readings in Qualitative Reasoning About Physical Systems is an introduction and source book for this dynamic area presenting reprints of key papers chosen by the editors and a group of expert referees The editors present introductions discussing the context and significance of each group of articles as well as providing pointers to the rest of the literature In addition the volume includes several original papers that are not available elsewhere

String Theory and the Scientific Method Richard Dawid, 2013-05-02 String theory has played a highly influential role in theoretical physics for nearly three decades and has substantially altered our view of the elementary building principles of the Universe However the theory remains empirically unconfirmed and is expected to remain so for the foreseeable future So why do string theorists have such a strong belief in their theory This book explores this question offering a novel insight into the nature of theory assessment itself Dawid approaches the topic from a unique position having extensive experience in both philosophy and high energy physics He argues that string theory is just the most conspicuous example of a number of theories in high energy physics where non empirical theory assessment has an important part to play Aimed at physicists and philosophers of science the book does not use mathematical formalism and explains most technical terms

Reasoning in Quantum Theory Maria Luisa Dalla Chiara, Roberto Giuntini, Richard Greechie, 2013-03-09 Is quantum logic really logic This book argues for a positive answer to this question once and for all There are many quantum logics and their structures are delightfully varied The most radical aspect of quantum reasoning is reflected in unsharp quantum logics a special heterodox branch of fuzzy thinking For the first time the whole story of Quantum Logic is told from its beginnings to the most recent logical investigations of various types of quantum phenomena including quantum computation Reasoning in Quantum Theory is designed for logicians yet amenable to advanced graduate students and researchers of other disciplines

**Existential Physics** Sabine Hossenfelder, 2022-08-09 A NEW YORK TIMES BESTSELLER An informed and entertaining guide to what science can and cannot tell us The Wall Street Journal Stimulating encourage s readers to push past well trod assumptions and have fun doing so Science Magazine From renowned physicist and creator of the YouTube series Science without the Gobbledygook a book that takes a no nonsense approach to life s biggest questions and wrestles with what physics really says about the human condition Not only can we not currently explain the origin of the universe it is questionable we will ever be able to explain it The notion that there are universes within particles or that particles are conscious is ascientific as is the hypothesis that our universe is a computer simulation On the other hand the idea that the universe itself is conscious is difficult to rule out entirely According to Sabine Hossenfelder it is not a coincidence that quantum entanglement and vacuum energy have become the go to explanations of alternative healers or that people believe their deceased grandmother is still

alive because of quantum mechanics Science and religion have the same roots and they still tackle some of the same questions Where do we come from Where do we go to How much can we know The area of science that is closest to answering these questions is physics Over the last century physicists have learned a lot about which spiritual ideas are still compatible with the laws of nature Not always though have they stayed on the scientific side of the debate In this lively thought provoking book Hossenfelder takes on the biggest questions in physics Does the past still exist Do particles think Was the universe made for us Has physics ruled out free will Will we ever have a theory of everything She lays out how far physicists are on the way to answering these questions where the current limits are and what questions might well remain unanswerable forever Her book offers a no nonsense yet entertaining take on some of the toughest riddles in existence and will give the reader a solid grasp on what we know and what we don't know

**Theoretical Concepts in Physics** Malcolm S. Longair, 2003-12-04 A highly original and truly novel approach to theoretical reasoning in physics This book illuminates the subject from the perspective of real physics as practised by research scientists It is intended to be a supplement to the final years of an undergraduate course in physics and assumes that the reader has some grasp of university physics By means of a series of seven case studies the author conveys the excitement of research and discovery highlighting the intellectual struggles to attain understanding of some of the most difficult concepts in physics Case studies include the origins of Newton's law of gravitation Maxwell's equations mechanics and dynamics linear and non linear thermodynamics and statistical physics the origins of the concepts of quanta special relativity general relativity and cosmology The approach is the same as that in the highly acclaimed first edition but the text has been completely revised and many new topics introduced

**Thinking in Physics** Vincent P. Coletta, 2015 For Introductory physics courses A fundamental approach to teaching scientific reasoning skills In Thinking in Physics Vincent Coletta creates a new curriculum that helps instructors reach students who have the greatest difficulty learning physics The book presents evidence that students reasoning ability is strongly related to their learning and describes ways for students to improve their reasoning to achieve a better understanding of basic physics principles

**The Great Mental Models: General Thinking Concepts** Farnam Street, 2019-12-16 The old saying goes To the man with a hammer everything looks like a nail But anyone who has done any kind of project knows a hammer often isn't enough The more tools you have at your disposal the more likely you'll use the right tool for the job and get it done right The same is true when it comes to your thinking The quality of your outcomes depends on the mental models in your head And most people are going through life with little more than a hammer Until now The Great Mental Models General Thinking Concepts is the first book in The Great Mental Models series designed to upgrade your thinking with the best most useful and powerful tools so you always have the right one on hand This volume details nine of the most versatile all purpose mental models you can use right away to improve your decision making productivity and how clearly you see the world You will discover what forces govern the universe and how to focus your efforts so you can

harness them to your advantage rather than fight with them or worse yet ignore them Upgrade your mental toolbox and get the first volume today AUTHOR BIOGRAPHY Farnam Street FS is one of the world s fastest growing websites dedicated to helping our readers master the best of what other people have already figured out We curate examine and explore the timeless ideas and mental models that history s brightest minds have used to live lives of purpose Our readers include students teachers CEOs coaches athletes artists leaders followers politicians and more They re not defined by gender age income or politics but rather by a shared passion for avoiding problems making better decisions and lifelong learning AUTHOR HOME Ottawa Ontario Canada

**Research and Innovation in Physics Education: Two Sides of the Same Coin** Jenaro Guisasola,Kristina Zuza,2020-08-20 This book describes novel approaches designed to enhance the professional training of physics teachers and explores innovations in the teaching and learning of physics in the classroom and laboratory It features selected contributions from the International Research Group on Physics Teaching GIREP and Multimedia in Physics Teaching and Learning MPLT Conference held in Donostia San Sebastian Spain in July 2018 which brought together two communities researchers in physics education and physics teachers The book covers a broad range of topics highlighting important aspects of the relationship between research and innovation in the teaching of physics and presenting fresh insights to help improve learning processes and instruction Offering a contemporary vision of physics teaching and the learning process the book is of interest to all teachers and researchers committed to teaching and learning physics on the basis of good evidence

**Model-Based Reasoning in Scientific Discovery** L. Magnani,Nancy Nersessian,Paul Thagard,1999-10-31 The volume is based on the papers that were presented at the International Conference Model Based Reasoning in Scientific Discovery MBR 98 held at the Collegio Ghislieri University of Pavia Pavia Italy in December 1998 The papers explore how scientific thinking uses models and explanatory reasoning to produce creative changes in theories and concepts The study of diagnostic visual spatial analogical and temporal reasoning has demonstrated that there are many ways of performing intelligent and creative reasoning that cannot be described with the help only of traditional notions of reasoning such as classical logic Traditional accounts of scientific reasoning have restricted the notion of reasoning primarily to deductive and inductive arguments Understanding the contribution of modeling practices to discovery and conceptual change in science requires expanding scientific reasoning to include complex forms of creative reasoning that are not always successful and can lead to incorrect solutions The study of these heuristic ways of reasoning is situated at the crossroads of philosophy artificial intelligence cognitive psychology and logic that is at the heart of cognitive science There are several key ingredients common to the various forms of model based reasoning to be considered in this book The models are intended as interpretations of target physical systems processes phenomena or situations The models are retrieved or constructed on the basis of potentially satisfying salient constraints of the target domain

Theoretical Concepts in Physics Malcolm S. Longair,2003

*The Sourcebook for Teaching Science, Grades 6-12* Norman Herr,2008-08-11 The Sourcebook for Teaching

Science is a unique comprehensive resource designed to give middle and high school science teachers a wealth of information that will enhance any science curriculum Filled with innovative tools dynamic activities and practical lesson plans that are grounded in theory research and national standards the book offers both new and experienced science teachers powerful strategies and original ideas that will enhance the teaching of physics chemistry biology and the earth and space sciences

Model-Based Reasoning Lorenzo Magnani,N.J. Nersessian,2002-05-31 There are several key ingredients common to the various forms of model based reasoning considered in this book The term model comprises both internal and external representations The models are intended as interpretations of target physical systems processes phenomena or situations and are retrieved or constructed on the basis of potentially satisfying salient constraints of the target domain The book s contributors are researchers active in the area of creative reasoning in science and technology

Reasoning with the Infinite Michel Blay,1998 Until the Scientific Revolution the nature and motions of heavenly objects were mysterious and unpredictable The Scientific Revolution was revolutionary in part because it saw the advent of many mathematical tools chief among them the calculus that natural philosophers could use to explain and predict these cosmic motions Michel Blay traces the origins of this mathematization of the world from Galileo to Newton and Laplace and considers the profound philosophical consequences of submitting the infinite to rational analysis One of Michael Blay s many fine achievements in Reasoning with the Infinite is to make us realize how velocity and later instantaneous velocity came to play a vital part in the development of a rigorous mathematical science of motion Margaret Wertheim New Scientist



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