

# COMMENTARY HOME ASCE

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**What is the ASCE slogan?** The ASCE logo with tagline (Infrastructure Leaders Building Communities) may appear when addressing audiences familiar with the association.

**What is ASCE 8?** provides design criteria for the determination of the strength of stainless steel structural members and connections for use in buildings and other statically loaded structures.

**How do I submit a paper to ASCE?** MANUSCRIPT SUBMISSION AND REVISION REQUIREMENTS Manuscripts must be submitted through the journal's Editorial Manager website. Links to the submission page can be found on the journal home page in the ASCE Library. ASCE will not review any manuscripts sent via email or mail.

**How long does ASCE review take?** ASCE's goal is to have manuscripts complete their initial review within 30 days. Revisions and rereview are frequently required conditions of acceptance. Discussions, Closures, Editorials, and Forums only require a review by the editor.

**What does ASCE mean?** The American Society of Civil Engineers represents more than 160,000 members of the civil engineering profession in 177 countries. Founded in 1852, ASCE is the nation's oldest national civil engineering society.

**Who is the CEO of ASCE?**

**What is the ASCE code?** ASCE Standards provide technical guidelines for promoting safety, reliability, productivity, and efficiency in civil engineering. Many of our standards are referenced by model building codes and adopted by state and

local jurisdiction. They also provide guidance for design projects around the world.

**What does ASCE 7 mean?** Developed by the American Society of Civil Engineers, ASCE 7 is an engineering code that provides a set of minimum requirements for the structural resistance of a building.

**What is ASCE 10 standard?** Standard ASCE/SEI 10-15 is a primary reference for structural engineers designing latticed steel electrical transmission structures, as well as for other engineers, inspectors, and utility officials involved in the electric power transmission industry.

**What is the ASCE mission statement?** The vision of ASCE is the engineers as global leaders building a better quality of life. Its mission is to provide essential value to its members, their careers, our partners, and the public through developing leadership, advancing technology, advocating lifelong learning and promoting the profession.

**What does the ASCE tattoo mean?** According to some readers, this tattoo is an abbreviation, with each letter symbolizing something. "A" stands for Ace, "S" stands for Sabo, and "C" stands for "crybaby" (meaning Luffy). Finally, "E" stands for Edward Newgate, whom Ace considered his father and the man he owed everything to.

**What is the motto of the Corps of engineers?**

**What is the motto of the Corps of Royal Engineers?** The Corps of Royal Engineers - Ubique Quo Fas et Gloria Ducunt (Everywhere, Where Right and Glory lead) The motto of the Royal Engineers (RE) is 'Ubique' meaning 'everywhere'; physically and conceptually the Sappers, our nickname, are hardwired into joint effects in all arenas.

**What is the last edition of Halliday physics?** Fundamentals of Physics is a calculus-based physics textbook by David Halliday, Robert Resnick, and Jearl Walker. The textbook is currently in its 12th edition (published October, 2021).

**Is fundamentals of physics calculus-based?** Fundamentals of Physics 12th Edition optimizes the student experience in the calculus-based course. The new simulations accompanying the 12th edition are intended to help students

understand the challenging concepts of physics and to motivate them to engage with content in a meaningful way.

**What are the 3 fundamentals of physics?**

**What is the difference between principles of physics and fundamentals of physics Halliday?** In summary: The standard edition is "Fundamentals of Physics", while the "Extended" edition is "Principles of Physics". Both editions contain the same content, with the only difference being the number of questions. The "Extended" edition has more questions than the "Standard" edition.

**Should I read Resnick Halliday?** I would definitely recommend this book for all the Jee aspirants. It has variety of questions and solved examples that help in studying for mains and advanced. Also the level of questions is slightly above the other physics books. Make sure you buy both the parts.

**What are the 4 fundamentals of physics?** These four basic forces are known as fundamental because they alone are responsible for all observations of forces in nature. The four fundamental forces are gravity, electromagnetism, weak nuclear force, and strong nuclear force.

**Is physics with Calc harder?** Calculus-based physics will likely cover the same, or at least similar, topics as algebra-based physics but in greater depth and with more mathematical rigor.

**Is Resnick Halliday good for self study?** Ofcourse it is. Resnick halliday has very good concepts which strengthen Ur knowledge and understanding of the topic. DC pandey has good amount of problems to solve which makes u analyse Ur Level of understanding. Hence do pay a good attention over them.

**What is harder, AP Physics 1 or 2?** Students who are skilled in math and physics, such as those who enjoyed AP Physics 1, may find AP Physics 2 one of their easier AP courses. However, students who are not particularly interested in physics or learners who struggled to pass AP Physics 1 may encounter difficulties in AP Physics 2.

**What is the hardest topic to understand in physics?**

**What is the most basic thing in physics?**

**What are the three pillars of physics?** Al????????Khalili begins by introducing the fundamental concepts of space, time, energy, and matter, and then describes the three pillars of modern physics—quantum theory, relativity, and thermodynamics—showing how all three must come together if we are ever to have a full understanding of reality.

**What is one of the most confusing concepts in physics?**

**How can I learn physics fundamentals?**

**What is the most fundamental theory in physics?** The Standard Model of Particle Physics is scientists' current best theory to describe the most basic building blocks of the universe. It explains how particles called quarks (which make up protons and neutrons) and leptons (which include electrons) make up all known matter.

**Which is better Resnick Halliday Walker or Krane?** Krane, is widely recognized for its comprehensive coverage of introductory physics concepts. It is known for its clear explanations, detailed examples, and extensive problem sets, making it suitable for students in university-level physics courses.

**Which is better, Halliday Resnick or HC Verma?** It is recommended if you have enough time you should read HC Verma first followed by Halliday and Resnick to get in depth knowledge of the subject and if you have less time you can read HC Verma.

**How is Resnick Halliday Walker?** Resnick Halliday Walker is a pretty nice book, but bad for JEE prep.

**Who is the father of physics?** The father of physics is often considered to be Isaac Newton. He made significant contributions to the field of physics, particularly in the areas of mechanics and gravitation, through his groundbreaking work, "Mathematical Principles of Natural Philosophy," published in 1687.

**What is the strongest known force in the universe?** The strong nuclear force, also called the strong nuclear interaction, is the strongest of the four fundamental forces of nature.

## **What are the 4 pillars of physics?**

**What's harder, chem or physics?** Chemistry is often perceived as more challenging than physics due to its intricate conceptual frameworks, mathematical demands, and the nature of chemical bonding. This complexity arises from several key factors.

**Which physics is the hardest?** Quantum mechanics is deemed the hardest part of physics.

**Is Calc harder than Chem?** But for what it's worth, I found calculus to be much easier than chemistry. Calculus involves a small handful of ideas that find applications in enormous giant-hand-handfuls of situations.

**Where to start self studying physics?** An introduction to mechanics course is the first course physics course that most people will take, and it's the best place to begin independent study of physics as well.

**Which is better, SL Arora or DC Pandey?** S.L.Arora is preferably to build your concepts, make it firmer and to fill in the loop holes, if any whereas D.C.Pandey takes you a notch higher with the clarity and helps you practice variety of usual and unusual questions in 3 difficulty levels.

**Is DC Pandey better or HC Verma?** If you prefer a concept-based approach with a gradual increase in difficulty level, HC Verma's book would be a better choice. On the other hand, if you prefer more challenging problems that focus on application and problem-solving skills, DC Pandey's book would be a better fit.

**What is the latest edition of the fundamentals of fluid mechanics?** Munson Young and Okiishi's Fundamentals of Fluid Mechanics offers comprehensive topical coverage with varied examples and problems, application of visual component of fluid mechanics, and a strong focus on effective learning.

**How is Resnick Halliday for JEE Advanced?** Resnick Halliday contains good theory portion but lacks good and quality numerical problems (like multiple concepts question). This book contains simple numericals that cannot withstand the toughness of JEE Advanced. This book is sufficient for JEE MAIN and other State Level

Entrance Examinations.

**What is the name of Resnick Halliday book?** Halliday & Resnick Principles of Physics, Extended, 12ed (An Indian Adaptation)

**Is Fundamentals of Physics a good book for JEE?** Concepts of Physics by HC Verma and Fundamentals of Physics by Halliday, Resnick & Walker are regarded as the best books for IIT JEE physics preparation.

**Is fluid mechanics a hard course?** When studying fluid mechanics, you'll be expected to understand complex equations and concepts involving fluid dynamics and flow situations. Students often find the mathematical and conceptual aspects of this course challenging.

**How much math is in fluid mechanics?** Research in fluid mechanics spans the spectrum of applied mathematics, and graduate students in this field develop skills in a broad range of areas, including mathematical modelling, analysis, computational mathematics, as well as physical intuition.

**Does fluid mechanics require calculus?** The study of fluid mechanics requires a variety of mathematical techniques. We will make use of vector calculus, complex analysis and methods for solving ordinary and partial differential equations. Familiarity with these topics is essential and assumed knowledge.

**Which is best Resnick Halliday or HC Verma?** It is recommended if you have enough time you should read HC Verma first followed by Halliday and Resnick to get in depth knowledge of the subject and if you have less time you can read HC Verma.

**Is Resnick Halliday enough for NSEP?** Halliday and Resnick is good if you're looking to understand the subject as a fresher and looking to solve problems at the same time. The difference between Krane and Walker is that in the latter the third author has incorporated material from his own book, The Flying Circus of Physics, into it.

**Who is the best teacher on youtube for IIT JEE physics?**

**Which is better Resnick Halliday Walker or Krane?** Krane, is widely recognized for its comprehensive coverage of introductory physics concepts. It is known for its

clear explanations, detailed examples, and extensive problem sets, making it suitable for students in university-level physics courses.

**Who was the co author of Resnick Halliday?** David Halliday was an American physicist known for his physics textbooks, Physics and Fundamentals of Physics, which he co-wrote with Robert Resnick. Both textbooks have been in continuous use since 1960 and are available in more than 47 languages.

**What is the name of the book about solid mechanics?** The undisputed classic for fluid mechanics is “Fluid Mechanics- Fundamentals and applications” by Yunus A Çengel. This book covers all the basics required for undergraduate and postgraduate to even some extent. If you are really thorough with the basics you can refer textbook by Frank M White.

**Which is toughest book for physics?** Problems in General Physics by IE Irodov This book is considered one of the toughest books for JEE Advanced physics. This book isn't meant for beginners and must be done only after a complete practice of some standard JEE book or coaching material. Irodov contains questions only and there is no theory along with them.

**Which is the hardest chapter in JEE mains?** Toughest Chapters In JEE Mains 2025 FAQs 1 : Which is the hardest chapter in JEE Mains? Ans: The hardest topics in JEE Main Physics include Heat and Thermodynamics, Mechanics, Electrostatics and Magnetism, Current Electricity, Optics, Modern Physics, and Electromagnetic Induction.

**Which is the toughest maths book for IIT JEE?** Since you want to know the toughest book for mathematics, it should be obvious that you must have solved the relatively easier books. As far as I have gone through, the toughest Mathematics book for IIT JEE is Advanced Problems on Coordinate Geometry by Vikas Gupta (HOD, Mathematics, Vibrant Academy, Kota).

### **Understanding Research: Becoming a Competent and Critical Consumer**

In today's information-rich society, it is crucial to be able to understand and evaluate research effectively. Here are some key questions and answers to help you become a competent and critical consumer of research:

**1. What is the purpose of research?** Research aims to answer questions, test hypotheses, generate new knowledge, or solve problems. It involves systematic investigation and the analysis of data to draw conclusions.

**2. How do you identify credible research?** Look for research published in reputable journals or presented at academic conferences. Examine the author's credentials and affiliations. Consider whether the research methods are rigorous and the findings are well-supported by evidence.

**3. How do you evaluate bias in research?** Bias can occur when researchers have personal or financial interests that influence their interpretations. Consider the funding sources and potential conflicts of interest. Examine if the research design and analysis methods minimize bias.

**4. How do you interpret research findings?** Understand the research question, methods, and results. Consider the limitations and implications of the findings. Evaluate whether the conclusions are supported by the evidence and are relevant to your context.

**5. How do you apply research findings to practice?** Consider the applicability of the research findings to your specific situation. Examine if the findings have been validated in different contexts and are endorsed by experts. Exercise caution when generalizing research findings to different populations or circumstances.

By understanding the purpose and principles of research, you can become a competent consumer who can critically evaluate research, identify bias, interpret findings, and apply them appropriately. This critical thinking ability is essential for making informed decisions, solving problems, and staying abreast of new knowledge in an ever-changing world.

## **The Ethereal Aether: A History of the Michelson-Morley-Miller Aether Drift Experiments (1880-1930)**

### **Introduction**

In the late 19th century, the luminiferous aether was a hypothetical medium believed to permeate all space and to transmit light waves. Several experiments were



conducted to detect the "aether drift" caused by the Earth's motion through this aether. One of the most famous and influential was the Michelson-Morley-Miller experiment, conducted in 1887.

### **Michelson's Experiment**

Albert Michelson designed an interferometer to detect the aether drift. He used a beam of light that was split into two perpendicular paths. If the Earth was moving through the aether, one beam would travel more slowly than the other. This difference in path lengths would cause the beams to interfere, producing a pattern of fringes. Michelson conducted his experiment in 1881 but failed to detect any fringe shift.

### **Morley and Miller's Experiments**

Edward Morley and Dayton Miller repeated Michelson's experiment with improved sensitivity in 1887. They used a longer interferometer and took precautions to eliminate vibrations and temperature fluctuations. Once again, they found no evidence of aether drift.

### **Later Experiments**

Despite the null results of the Michelson-Morley-Miller experiment, several other scientists attempted to detect the aether drift using different methods. However, none of these experiments yielded positive results.

### **Conclusion**

The Michelson-Morley-Miller experiment and subsequent attempts to detect the aether drift ultimately failed. This led to the demise of the luminiferous aether theory and paved the way for the development of Einstein's theory of special relativity, which proposed that the speed of light is constant in all inertial frames of reference, regardless of whether there is an aether or not.

### **Frequently Asked Questions**

- **Q: What was the purpose of the Michelson-Morley-Miller experiment?**
  - A: To detect the "aether drift" caused by the Earth's motion through the luminiferous aether.
  
- **Q: Why were the results of the Michelson-Morley-Miller experiment important?**
  - A: They led to the demise of the luminiferous aether theory and paved the way for special relativity.
  
- **Q: What caused the null results of the Michelson-Morley-Miller experiment?**
  - A: The experiment was based on the assumption of a stationary aether, which later proved to be incorrect.
  
- **Q: Who conducted other experiments to detect the aether drift?**
  - A: Edward Morley, Dayton Miller, and several others.
  
- **Q: What does the Michelson-Morley-Miller experiment tell us about the nature of light?**
  - A: It indicates that the speed of light is constant in all inertial frames of reference, regardless of the existence of an aether.

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