

AP® PHYSICS 2: FREE-RESPONSE QUESTIONS

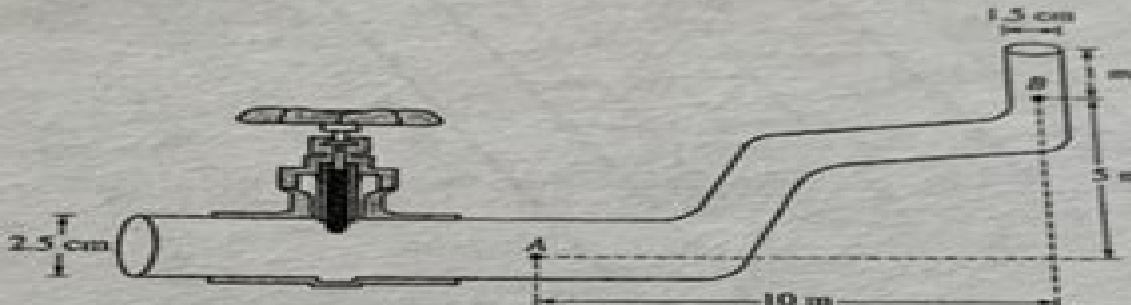
PHYSICS 2

Section II

4 Questions

Time—90 minutes

**Directions:** Questions 1 and 4 are short free-response questions that require about 20 minutes each to answer and are worth 10 points each. Questions 2 and 3 are long free-response questions that require about 25 minutes each to answer and are worth 12 points each. Show your work for each part in the space provided after that part.



**Note:** Figure not drawn to scale.

1. (10 points, suggested time 20 minutes)

Two students observe water flowing from left to right through the section of pipe shown above, which decreases in diameter and increases in elevation. The pipe ends on the right, where the water exits vertically. At point A the water is known to have a speed of  $0.50 \text{ m/s}$  and a pressure of  $2.0 \times 10^5 \text{ Pa}$ . The density of water is  $1000 \text{ kg/m}^3$ .

(a) The students disagree about the water pressure and speed at point B. They make the following claims. Student Y claims that the pressure at point B is greater than that at point A because the water is moving faster at point B. Student Z claims the speed of the water is less at point B than that at point A because by conservation of energy, some of the water's kinetic energy has been converted to potential energy of the Earth-water system.

- Indicate any aspects of student Y's claim that are correct.
- Indicate any aspects of student Y's claim that are incorrect. Support your answer using appropriate physics principles.
- Indicate any aspects of student Z's claim that are correct.
- Indicate any aspects of student Z's claim that are incorrect. Support your answer using appropriate physics principles.

# Ap Response Questions On Fluids

**Juha P. Kokko, Richard L. Tannen**

## Ap Response Questions On Fluids:

**Theoretical foundation for large-scale computations for nonlinear material behavior** S. Nemat-Nassar, R.J. Asaro, G.A. Hegemier, 2012-12-06 This book contains the proceedings of a workshop on the Theoretical Foundation for Large Scale Computations of Nonlinear Material Behavior held under the auspices of the National Science Foundation NSF and the Defense Advanced Research Projects Agency DARPA at Northwestern University October 24-26 1983. The main objective of this workshop was to provide a forum for the exchange of information and views on major issues relating to the fundamentals of characterizing the inelastic constitutive material behavior. Comments on the Aims of the Workshop by Drs William Snowden and Thomas Bache pp 1-5 outline reasons for holding this workshop and provide further background. The format of the workshop was designed to optimize the interaction between researchers whose primary interest is material characterization and numerical analysts whose primary interest is the development and practical use of large computer codes. The program of the workshop and a list of the workshop participants are found at the end of these proceedings.

**Neurobiology of Food and Fluid Intake** Edward M. Stricker, Stephen Woods, 2006-05-04 Like previous handbooks the present volume is an authoritative and up to date compendium of information and perspective on the neurobiology of ingestive behaviors. It is intended to be stimulating and informative to the practitioner whether neophyte or senior scholar. It is also intended to be accessible to others who do not investigate the biological bases of food and fluid ingestion who may teach aspects of this material or simply wonder about the current state of the field. To all readers we present this handbook as a progress report recognizing that the present state of the field is much farther along than it was the last time a handbook was published but mindful of the likelihood that it is not as far along as it will be when the next handbook is prepared. This field has witnessed a spectacular accretion of scientific information since the first handbook was published in 1967. During the generation of science between then and the publication of the second handbook in 1990 numerous scientific reports have substantially changed the perspective and informational base of the field.

**Liquid Polymorphism, Volume 152** H. Eugene Stanley, 2013-04-22 The Advances in Chemical Physics series the cutting edge of research in chemical physics. The Advances in Chemical Physics series provides the chemical physics and physical chemistry fields with a forum for critical authoritative evaluations of advances in every area of the discipline. Filled with cutting edge research reported in a cohesive manner not found elsewhere in the literature each volume of the Advances in Chemical Physics series presents contributions from internationally renowned chemists and serves as the perfect supplement to any advanced graduate class devoted to the study of chemical physics. This volume explores Electron Spin Resonance Studies of Supercooled Water, Water-like Anomalies of Core Softened Fluids, Dependence on the Trajectories in P-T Space, Water Proton Environment, A New Water Anomaly at Atomic Scale, Polymorphism and Anomalous Melting in Isotropic Fluids, Computer Simulations of Liquid Silica, Water-like Thermodynamic and Dynamic Anomalies and the Evidence for Polyamorphism.

**Protides of the Biological Fluids**

Hubert Peeters,1989 *Physical and Chemical Hydrogeology* Patrick A. Domenico, Franklin W. Schwartz,1997-10-15 This book shows readers how to apply hydrogeology principles to a host of problems related to water supply contamination and energy resources It discusses hydraulic testing modeling of contaminant transport process and parameter determination and remediation It also addresses porosity permeability and flow for continental environments marine environments and the borders between them **Questions and Answers, Veterinary** John Victor Lacroix, Horace Preston Hoskins,1951

**Prioritization, Delegation, and Assignment - E-Book** Linda A. LaCharity, Candice K. Kumagai, Shirley M. Hosler,2021-05-05 Prepare for the Next Generation NCLEX RN Exam NGN and gain the clinical judgment skills you need to manage patient care safely and effectively Prioritization Delegation and Assignment Practice Exercises for the NCLEX RN Examination 5th Edition is the first and the most popular NCLEX RN Exam review book focused exclusively on building management of care clinical judgment skills What's more this bestselling review is now enhanced for the NGN with new NGN style questions Beginning with concepts relating to prioritization delegation and assignment decisions the workbook guides you through patient care scenarios and exercises progressing from simple to complex All of the book's questions are provided in an interactive online format on the Evolve website in tests that simulate the latest NCLEX RN Exam Written by a team of noted educators led by Linda A LaCharity this review prepares you for success on the NGN and in clinical practice like no other Management of care focus addresses the emphasis on prioritization delegation and patient assignment in the NCLEX RN Examination Three part organization first establishes foundational knowledge and then provides exercises with scenarios of increasing difficulty to help you build confidence in your prioritization delegation and patient assignment skills Part One Introduction provides a concise foundation and practical guidelines for making prioritization delegation and patient assignment decisions Part Two Prioritization Delegation and Assignment in Common Health Scenarios provides practice in applying the principles you've learned to relatively straightforward health scenarios involving single patients or simple patient assignments Part 3 Prioritization Delegation and Assignment in Complex Health Scenarios includes unfolding cases involving patients with progressively more complicated health problems or challenging assignment issues demonstrating the progression of typical health scenarios and helping you learn to think like a nurse Answer keys follow each chapter and provide the correct answer plus a detailed rationale Practice quizzes on the Evolve website include all of the book's questions in an interactive format that allows you to create a virtually unlimited number of practice sessions or tests in Study Mode or Exam Mode NEW and UNIQUE Updated question formats prepare you to succeed on the Next Generation NCLEX RN Examination NGN by including the latest item types and highlighting each with a distinctive icon NEW and UNIQUE Next Generation NCLEX Questions chapter includes only NGN style questions to help you focus your study time on these new question formats and optimize your chances for success on the NGN NEW Dozens of additional questions and answers provide more review and practice for the increasingly challenging NCLEX RN Exam NEW Updated content throughout

matches the latest evidence based guidelines and treatment protocols      **The Comprehensive Respiratory Therapist Exam Review** James R. Sills,2010 Reflects the most recent NBRC exam content Cover      **Report Pennsylvania. State Board of Agriculture,1887**      **Official Documents, Comprising the Department and Other Reports Made to the Governor, Senate, and House of Representatives of Pennsylvania** Pennsylvania,1887      **CliffsAP Physics B & C** James R. Centorino,2004 Suitable for students who are enrolled in AP Physics B or C or who are preparing for the Advanced Placement Examination in AP Physics B or C this book offers hints for answering the free response and multiple choice sections an explanation of the exam formats and a look at how exams are graded      **Acute Fluid Replacement in the Therapy of Shock** Theodore I. Malinin,1974      *Davis's Diseases & Disorders* Marilyn Sawyer Sommers,2018-08-28 Everything you need to know about caring for patients in one portable must have handbook Put information on more than 240 diseases and disorders at your fingertips Clear comprehensive discussions of pathophysiology with rationales in the test and intervention sections help you deliver effective care with confidence      **Proceedings of the ASME Pressure Vessels and Piping Conference--2006: Fluid-structure interaction** ,2007      *Annual Report of the Pennsylvania Board of Agriculture for the Year ... Pennsylvania. State Board of Agriculture,1887*      **The Immune Response to Infectious Diseases** ,1974      Neurobiology of Food and Fluid Intake E. Stricker,1990-10-31 The last two decades of research have brought forth that aspects of ingestive behavior can best be understood in a biological context and that physiological responses complementing ingestive behavior are not totally independent of behavior Also the multidisciplinary considerations of eating and drinking permit insights into various dysfunctions in human ingestive behavior and vice versa These themes are evident in twelve chapters covering the general areas of food intake and caloric homeostasis food selection thirst sodium appetite and fluid homeostasis Several essays provide a retrospective analysis of recent progress in the study of human obesity thirst and diet selection Annotation copyrighted by Book News Inc Portland OR      **Journal of Fluids Engineering** ,1997      *Fluids and Electrolytes* Juha P. Kokko,Richard L. Tannen,1990 Presents an authoritative approach to patients with fluid electrolyte and acid base disorders It provides both a detailed matrix for managing patients with specific electrolyte disorders and clinical conditions associated with electrolyte imbalances      American Practitioner and News ,1891

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