

## Physics Homework Solutions

1. Determine the atmospheric pressure:

$$P = h \times \rho \times g$$

Where:

$$- h = 720 \text{ mm} = 0.720 \text{ m}$$

$$- \rho = 13595 \text{ kg/m}^3 \text{ (density of mercury at } 20^\circ\text{C)}$$

$$- g = 9.805 \text{ m/s}^2$$

$$P = 0.720 \times 13595 \times 9.805$$

$$P = 95,922 \text{ Pa}$$

2. Fraction of the iceberg below water:

$$- \rho_{\text{iceberg}} = 917 \text{ kg/m}^3$$

$$- \rho_{\text{seawater}} = 1020 \text{ kg/m}^3$$

$$\text{Fraction submerged} = 917 / 1020 = 0.899.$$

3

(a) . Buoyant force on the steel:

$$F_b = \rho_{\text{water}} \times V_{\text{displaced}} \times g$$

$$- \rho_{\text{water}} = 1000 \text{ kg/m}^3$$

$$- V_{\text{displaced}} = \text{mass} / \rho_{\text{steel}}$$

$$- \text{Mass of steel} = 15000 \text{ metric tons} = 1.5 \times 10^7 \text{ kg}$$

$$V_{\text{displaced}} = 1.5 \times 10^7 / 7850 = 1911.46 \text{ m}^3$$

$$F_b = 1000 \times 1911.46 \times 9.805 = 1.875 \times 10^7 \text{ N}$$

The buoyant force is approximately  $1.875 \times 10^7 \text{ N}$ .

Weight of steel:

$$W = m \times g = 1.5 \times 10^7 \times 9.805 = 1.471 \times 10^8 \text{ N}$$

Comparison:

$$- \text{Buoyant force: } 1.875 \times 10^7 \text{ N}$$

$$- \text{Weight of steel: } 1.471 \times 10^8 \text{ N}$$

The buoyant force is much smaller than the steel's weight, so the steel will sink.

3(b). Maximum buoyant force for displaced water:

$$F_b = \rho_{\text{water}} \times V_{\text{displaced}} \times g$$

Given:

$$- V_{\text{displaced}} = 3.00 \times 10^5 \text{ m}^3$$

$$- \rho_{\text{water}} = 1000 \text{ kg/m}^3$$

# Smart Physics Homework Solutions

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## **Smart Physics Homework Solutions:**

**Innovations in Smart Learning** Elvira Popescu, Kinshuk, Mohamed Koutheair Khribi, Ronghuai Huang, Mohamed Jemni, Nian-Shing Chen, Demetrios G. Sampson, 2016-09-16 The book aims to provide an archival forum for researchers academics practitioners and industry professionals interested and or engaged in the reform of the ways of teaching and learning through advancing current learning environments towards smart learning environments It facilitates opportunities for discussions and constructive dialogue among various stakeholders on the limitations of existing learning environments need for reform innovative uses of emerging pedagogical approaches and technologies and sharing and promotion of best practices leading to the evolution design and implementation of smart learning environments The focus of the contributions in this book is on the interplay of pedagogy technology and their fusion towards the advancement of smart learning environments Various components of this interplay include but are not limited to Pedagogy learning paradigms assessment paradigms social factors policy Technology emerging technologies innovative uses of mature technologies adoption usability standards and emerging new technological paradigms open educational resources cloud computing etc Fusion of pedagogy and technology transformation of curriculum transformation of teaching behavior transformation of administration best practices of infusion piloting of new ideas

**Physics** John D. Cutnell, Kenneth W. Johnson, David Young, Shane Stadler, 2021-10-12 Physics 12th Edition focuses on conceptual understanding problem solving and providing real world applications and relevance Conceptual examples Concepts and Calculations problems and Check Your Understanding questions help students understand physics principles Math Skills boxes multi concept problems and Examples with reasoning steps help students improve their reasoning skills while solving problems The Physics Of boxes and new Physics in Biology Sports and Medicine problems show students how physics principles are relevant to their everyday lives A wide array of tools help students navigate through this course and keep them engaged by encouraging active learning Animated pre lecture videos created and narrated by the authors explain the basic concepts and learning objectives of each section Problem solving strategies are discussed and common misconceptions and potential pitfalls are addressed Chalkboard videos demonstrate step by step practical solutions to typical homework problems Finally tutorials that implement a step by step approach are also offered allowing students to develop their problem solving skills

Physics, Volume Two: Chapters 18-32 John D. Cutnell, Kenneth W. Johnson, 2014-12-15 Cutnell and Johnson has been the 1 text in the algebra based physics market for almost 20 years The 10th edition brings on new co authors David Young and Shane Stadler both out of LSU The Cutnell offering now includes enhanced features and functionality The authors have been extensively involved in the creation and adaptation of valuable resources for the text This edition includes chapters 18 32

Smart Education and Smart e-Learning Vladimir L. Uskov, Robert J. Howlett, Lakhmi C. Jain, 2015-06-09 This book contains the contributions presented at the 2nd international KES conference on Smart Education and Smart e Learning which took place in Sorrento Italy June 17 19 2015

It contains a total of 45 peer reviewed book chapters that are grouped into several parts Part 1 Smart Education Part 2 Smart Educational Technology Part 3 Smart e Learning Part 4 Smart Professional Training and Teachers Education and Part 5 Smart Teaching and Training related Topics This book can be a useful source of research data and valuable information for faculty scholars Ph D students administrators and practitioners those who are interested in innovative areas of smart education and smart e learning

**Intelligent Tutoring Systems** Stefan Trausan-Matu, Kristy Boyer, Martha Crosby, Kitty Panourgia, 2014-05-24 This book constitutes the refereed proceedings of the 12th International Conference on Intelligent Tutoring Systems ITS 2014 held in Honolulu HI USA in June 2014 The 31 revised full papers 45 short papers and 27 posters presented were carefully viewed and selected from 177 submissions The specific theme of the ITS 2014 conference is Creating fertile soil for learning interactions Besides that the highly interdisciplinary ITS conferences bring together researchers in computer science learning sciences cognitive and educational psychology sociology cognitive science artificial intelligence machine learning and linguistics The papers are organized in topical sections on affect multimodality and metacognition collaborative learning data mining and student behavior dialogue and discourse generating hints scaffolds and questions game based learning and simulation graphical representations and learning student strategies and problem solving scaling ITS and assessment

*Physics, Volume One: Chapters 1-17* John D. Cutnell, Kenneth W. Johnson, 2014-12-15 Cutnell and Johnson has been the 1 text in the algebra based physics market for almost 20 years The 10th edition brings on new co authors David Young and Shane Stadler both out of LSU The Cutnell offering now includes enhanced features and functionality The authors have been extensively involved in the creation and adaptation of valuable resources for the text This edition includes chapters 1 17

**Cutnell & Johnson Physics** John D. Cutnell, David Young, Kenneth W. Johnson, Shane Stadler, 2022 The newly revised Twelfth Edition of Cutnell s Physics delivers an effective and accessible introduction to college and university physics It contains easy to follow explanations of critical math and problem solving concepts From kinematics to work and energy temperature heat electricity magnetism and optics as well as foundational concepts in more advanced subjects like special relativity Physics is the ideal introductory text for students from any background The greatest strength of the text is the synergistic relationship it develops between problem solving and conceptual understanding The book lays emphasis on building relevance of physics in day to day living and highlights the physics principles that come into play A wide range of applications that are biomedical in nature and others that deal with modern technology

**Physics, Volume 1** John D. Cutnell, Kenneth W. Johnson, David Young, Shane Stadler, 2021-10-05 In the newly revised Twelfth Edition of Physics Volume 1 an accomplished team of physicists and educators delivers an accessible and rigorous approach to the skills students need to succeed in physics education Readers will learn to understand foundational physics concepts solve common physics problems and see real world applications of the included concepts to assist in retention and learning The text includes Check Your Understanding questions Math Skills boxes multi concept problems and worked examples The first

volume of a two volume set Volume 1 explores ideas and concepts like Newton s Laws of Motion the Ideal Gas Law and kinetic theory Throughout students knowledge is tested with concept and calculation problems and team exercises that focus on cooperation and learning

**Physics, Volume 2** John D. Cutnell,Kenneth W. Johnson,David Young,Shane Stadler,2021-10-05 In the newly revised Twelfth Edition of Physics Volume 2 an accomplished team of physicists and educators delivers an accessible and rigorous approach to the skills students need to succeed in physics education Readers will learn to understand foundational physics concepts solve common physics problems and see real world applications of the included concepts to assist in retention and learning The text includes Check Your Understanding questions Math Skills boxes multi concept problems and worked examples The second volume of a two volume set Volume 2 explores ideas and concepts like the reflection refraction and wave particle duality of light Throughout students knowledge is tested with concept and calculation problems and team exercises that focus on cooperation and learning

**Machine Learning for Environmental Noise Classification in Smart Cities** Ali Othman Albaji,2024-03-21 We present a Machine Learning ML approach to monitoring and classifying noise pollution Both methods of monitoring and classification have been proven successful MATLAB and Python code was generated to monitor all types of noise pollution from the collected data while ML was trained to classify these data ML algorithms showed promising performance in monitoring the different sound classes such as highways railways trains and birds airports and many more It is observed that all the data obtained by both methods can be used to control noise pollution levels and for data analytics They can help decision making and policy making by stakeholders such as municipalities housing authorities and urban planners in smart cities The findings indicate that ML can be used effectively in monitoring and measurement Improvements can be obtained by enhancing the data collection methods The intention is to develop more ML platforms from which to construct a less noisy The second objective of this study was to visualize and analyze the data of 18 types of noise pollution that have been collected from 16 different locations in Malaysia All the collected data were stored in Tableau software Through the use of both qualitative and quantitative measurements the data collected for this project was then combined to create a noise map database that can help smart cities make informed decisions

**Topics on Mathematics for Smart Systems** Bernadette Miara,2007 This volume gathers articles presented at a prominent European conference on smart systems and summarizes the activities carried out by a research and training network supported by the European community The contributions aim to exhibit new research topics in the areas of materials science advanced mathematical tools and elements of control and numerical algorithms relevant to the design and optimization of smart systems

**Topics On Mathematics For Smart Systems - Proceedings Of The European Conference** Vanda Valente,Bernadette Miara,Georgios Stavroulakis,2007-01-18 This volume gathers articles presented at a prominent European conference on smart systems and summarizes the activities carried out by a research and training network supported by the European community The contributions aim to exhibit new research topics in the areas of

materials science advanced mathematical tools and elements of control and numerical algorithms relevant to the design and optimization of smart systems

**Will We Be Smart Enough?** Earl Hunt, 1995-07-20 The American workforce and the American workplace are rapidly changing in ways that make them increasingly incompatible Advances in automation and telecommunications have eliminated many jobs based on routine tasks and muscle power and fueled the demand for employees who can understand and apply new technologies But as Earl Hunt convincingly demonstrates in Will We Be Smart Enough such smart employees will be in dangerously short supply unless fundamental changes are made to our educational and vocational systems Will We Be Smart Enough combines cognitive theory demographic projections and psychometric research to measure the capabilities of tomorrow's workforce against the needs of tomorrow's workplace Characterized by sophisticated machinery instant global communication and continuous reorganization the workplace will call for people to fuse multiple responsibilities adapt quickly to new trends and take a creative approach to problem solving Will Americans be able to meet the difficult and unprecedented challenges brought about by these innovations Hunt examines data from demographic sources and a broad array of intelligence tests whose fairness and validity he judiciously assesses He shows that the U S labor force will be increasingly populated by older workers who frequently lack the cognitive flexibility required by rapid change and by racial and ethnic minorities who have so far not fully benefitted from the nation's schools to develop the cognitive skills necessary in a technologically advanced workplace At the heart of Will We Be Smart Enough lies the premise that this forecast can be altered and that cognitive skills can be widely and successfully taught Hunt applies psychological principles of learning and cognitive science to a variety of experimental teaching programs and shows how the information revolution which has created such rapid change in the workplace can also be used to transform the educational process and nurture the skills that the workplace of the future will require Will We Be Smart Enough answers naysayers who pronounce so many people cognitively disadvantaged by suggesting that new forms of education can provide workers with enhanced skills and productive employment in the twenty first century Hunt's book provides succinct lucid presentations of our best scientific understandings of thinking intelligence job performance and how to measure them Only by comprehending and applying these understandings to develop sound educational and instructional strategies can we create a capable workforce for the digital age John T Bruer President James S McDonnell Foundation

**Cognitive and Metacognitive Problem-Solving Strategies in Post-16 Physics** Ronald Mazorodze, Michael J. Reiss, 2019-09-20 This book reports on a study on physics problem solving in real classrooms situations Problem solving plays a pivotal role in the physics curriculum at all levels However physics students performance in problem solving all too often remains limited to basic routine problems with evidence of poor performance in solving problems that go beyond equation retrieval and substitution Adopting an action research methodology the study bridges the research practical divide by explicitly teaching physics problem solving strategies through collaborative group problem solving sessions embedded within the curriculum Data were collected using

external assessments and video recordings of individual and collaborative group problem solving sessions by 16 18 year olds The analysis revealed a positive shift in the students problem solving patterns both at group and individual level Students demonstrated a deliberate well planned deployment of the taught strategies The marked positive shifts in collaborative competences cognitive competences metacognitive processing and increased self efficacy are positively correlated with attainment in problem solving in physics However this shift proved to be due to different mechanisms triggered in the different students

Proceedings of the 2022 3rd International Conference on Artificial Intelligence and Education (IC-ICAIE 2022) Bob Fox, Chuan Zhao, Marcus T. Anthony, 2024-03-14 This is an open access book The 2022 3rd International Conference on Artificial Intelligence and Education ICAIE 2022 will be held in Chengdu China during June 24 26 2022 The meeting focused on the new trends in the development of artificial intelligence and education under the new situation and jointly discussed how to empower and promote the high quality development of artificial intelligence and education An ideal platform to share views and experiences with industry experts The conference invites experts and scholars in the field to conduct wonderful exchanges based on their own research results based on the development of the times The themes are around artificial intelligence technology and applications intelligent and knowledge based systems information based education intelligent learning advanced information theory and neural network technology software computing and algorithms intelligent algorithms and computing and many other topics

**Principles of Fire and Emergency Services Administration Includes Navigate Advantage Access** Randy R Bruegman, 2021-03-30 Revised edition of Fire

administration *Intelligent Systems* Siba Kumar Udgata, Srinivas Sethi, George Ghinea, Sanjay Kumar Kuanar, 2025-01-17 This book features best selected research papers presented at the Fourth International Conference on Machine Learning Internet of Things and Big Data ICMIB 2024 held at GIET University Gunupur India during 8 10 April 2024 It comprises high quality research work by academicians and industrial experts in the field of machine learning mobile computing natural language processing fuzzy computing green computing human computer interaction information retrieval intelligent control data mining and knowledge discovery evolutionary computing IoT and applications in smart environments smart health smart city wireless networks big data cloud computing business intelligence Internet security pattern recognition predictive analytics applications in health care sensor networks and social sensing and statistical analysis of search techniques

**Cybersecurity in the Age of Smart Societies** Hamid Jahankhani, 2023-01-02 This book provides an opportunity for researchers scientists government officials strategist and operators and maintainers of large complex and advanced systems and infrastructure to update their knowledge with the state of best practice in the challenging domains whilst networking with the leading representatives researchers and solution providers The ongoing pandemic has created a new level of threats which presents new challenges around privacy data protection malicious application unprotected networks or networks with basic protection that are being used as a gateway to larger infrastructure with complicated architecture and unintentional

misuse such as those associated with algorithmic bias All these have increased the number of attack vectors that can be used to attack such networks Drawing on 13 years of successful events on information security digital forensics and cyber crime the 14th ICGS3 22 conference aims to provide attendees with an information packed agenda with representatives from across the industry and the globe The challenges of complexity rapid pace of change and risk opportunity issues associated with modern products systems special events and infrastructures In an era of unprecedented volatile political and economic environment across the world computer based systems face ever more increasing challenges disputes and responsibilities and whilst the Internet has created a global platform for the exchange of ideas goods and services it has also created boundless opportunities for cyber crime This volume presents new materials and contribute to knowledge through the technological advances that are being made across artificial intelligence AI machine learning blockchain and quantum computing These technologies driven by a digital revolution are expected to be disruptive and provide major digital transformation in the way societies operate today As result although these advances provide social and economic benefits but also provide new challenges that security industry need to raise their game to combat them      *Digital Transformation of Regional Education in China* Haijun Zeng,Jingwen Pan,Jian Xu,Qiurui Sun,2025-02-24 This book presents the best practices of smart education in different regions across China Each chapter addresses one or more of the following topics smart learning environments new education and teaching models teaching platforms and digital tool applications teacher professional development smart education evaluation education governance and education digitization This edited collection promotes digital integration and innovative development of education improves regional education levels and ultimately forms a new model to support and lead the modernization of education in China      *Currents* Jeremy Scott,2020-10-27 Set four years after the events of Strings Currents finds the Ables gang about to start their second year at Goodspeed University Phillip is struggling more than ever with anxiety and PTSD and he continues to feel tremendous guilt over the loss of a friend It s haunting him He s having vivid nightmares passing out frequently and starting to question his role in the world On top of all that he s taking his first public speaking course and the learning curve is steep though he does make a new friend in the class Phillip also finds himself truly blind once again with no one to give him even temporary sight He and his girlfriend Emmaline have created a sort of shorthand that allows her to communicate enemy positions so that Phillip can still be an effective crime fighter Sherpa his dog is proving just as helpful during hero work as she is in the day to day things Phillip needs help with There s more distance between Phillip Bentley now and the reasons aren t entirely understood by either of them As Phillip tries to keep it together and rebuild an old friendship the group of college heroes chases a new energy hoarding villain across the globe desperate to understand the danger in time to stop it By the end few of them will ever be the same



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