

Name: \_\_\_\_\_ Score: \_\_\_\_\_

### Archimedes Principle

#### Formulas

Density = mass/volume

Weight = mass\*gravity

Weight of a fluid = density\*volume\*gravity

#### Useful Values

Density of water = 1.0 kg/L

Start on the Intro screen on the Buoyancy Sim on the PhET Sims site.

- 1) What is Archimedes Principle?

*The buoyant force is equal to the weight of the fluid displaced.*

- 2) What is the mass of each block?

*5.0 kg*

- 3) How much does each block weigh? (Use the formula and  $9.8 \text{ m/s}^2$  for  $g$  and show your work below. Then check the weight on the scale).

*$5.0 \text{ kg} * 9.8 \text{ m/s}^2 = 49.0 \text{ N}$*

- 4) Click box to "Show Forces" for "Gravity" and "Contact Forces" and click box to "Readout" for "Force Values". What are the values for and direction of each force, for each block?

Wood Block:

Brick:

Gravity:  *$49.0 \text{ N down}$*  Contact Force:  *$49.0 \text{ N up}$*

Gravity:  *$49.0 \text{ N down}$*  Contact Force:  *$49.0 \text{ N up}$*

- 5) What is the net force on each block?  *$0.0 \text{ N}$*

- 6) They are in a state of *equilibrium*.

- 7) What is the volume of water in the pool?  *$100.00 \text{ L}$*

- 8) Place the wood block in the water. What volume of water does the wood displace?  *$5.0 \text{ L}$*

- 9) What is the weight of the water displaced? (Use the formula for the weight of a fluid above, show your work below)  *$W_f = 1.0 \text{ kg/L} * 5.0 \text{ L} * 9.8 \text{ m/s}^2 = 49.0 \text{ N}$*

- 10) Click on the box to "Show Forces" for "Buoyant Force". What is the value of the buoyant force?  *$49.0 \text{ N}$*

- 11) Compare the weight of the fluid displaced and the buoyant force. *They are the same.*

- 12) What is Archimedes Principle?

*The buoyant force is equal to the weight of the fluid displaced.*

- 13) How much does the brick weigh?  *$49.0 \text{ N}$*

# Buoyancy Phet Lab Answers

**JR Anderson**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Buoyancy Phet Lab Answers:**

Scientific and Technical Aerospace Reports ,1990      *Air & Space Smithsonian* ,2014      American Cinematographer ,1973      **NB-42 Neutral Buoyancy Simulation of EVA Assembly** George Sarver,1981      *NB-67B Neutral Buoyancy Simulation of Teleoperation and EVA Anthropometrics* Massachusetts Institute of Technology. Space Systems Laboratory,1987      NB-53D Test Plan George C. Marshall Space Flight Center,Massachusetts Institute of Technology. Space Systems Laboratory,1984      *Quick Look Test Report, NB-42* Mary L. Bowden,1981      *NB-42B Test Report* Mary L. Bowden,David L. Akin,1981      Numerical Simulation of Buoyancy Effects in Turbulent Flow Peter Terhoeven,1990

**Numerical Simulation of Buoyancy-induced Flow in a Sealed Rotating Cavity** Tanat Lewis,1999      **Numerical Simulation of Nonlinear Buoyancy Waves in the Lower Atmosphere** Pengfei Zhang,1997      **Launch Deployment Assembly Extravehicular Activity Neutral Buoyancy Development Test Report** National Aeronautics and Space Administration (NASA),2018-07-18 This test evaluated the Launch Deployment Assembly LDA design for Extravehicular Activity EVA work sites setup ingress egress reach and visual access and translation required for cargo item removal As part of the LDA design this document describes the method and results of the LDA EVA Neutral Buoyancy Development Test to ensure that the LDA hardware support the deployment of the cargo items from the pallet This document includes the test objectives flight and mockup hardware description descriptions of procedures and data collection used in the testing and the results of the development test at the National Aeronautics and Space Administrations NASA Marshall Space Flight Center MSFC Neutral Buoyancy Simulator NBS Loughhead T Marshall Space Flight Center EXTRAVEHICULAR ACTIVITY DATA ACQUISITION LAUNCHING DEPLOYMENT EGRESS NEUTRAL BUOYANCY SIMULATION LASER DOPPLER VELOCIMETERS CARGO BUOYANCY      **Large Eddy Simulation of Turbulent Channel Flow with Buoyancy Effects** Joon Sang Lee,1999 Structured grid finite volume formulations have been developed to solve the compressible Navier Stokes equations for performing large eddy simulation of turbulent flows These compressible formulations were developed using low Mach number preconditioning Time marching was done with a coupled strongly implicit scheme The discretization schemes were second order accurate central difference and third order accurate upwind and a comparison was made between two schemes Validations were performed using turbulent compressible benchmark flows with low heat transfer The results were compared to direct numerical simulation experimental and other large eddy simulation results The large eddy simulations yielded excellent agreement with the direct numerical simulation and experimental results for incompressible turbulence For the significant property variations high heat transfer rate was imposed and the effects of buoyancy on the turbulent structures under stably and unstably stratified flows were investigated The effects of buoyancy were larger in the central region of channel where the largest Richardson number occurred Despite the fact that the relative buoyancy production was small near the boundary walls effects of buoyancy were observed      *High Fidelity Simulation of Buoyancy-driven Fluid Flow*

*in Fluoride Salt-cooled High Temperature Reactors Using the Spectral Element Method* Tri Nguyen, 2023 The world transition from fossil to clean energy is challenging given that fossil fuels still contribute the most of world energy demand While renewable energy cannot displace fossil fuels from the electricity mix nuclear energy is the leading solution for the world energy transition mission Among advanced nuclear reactor designs Fluoride salt cooled high temperature reactors FHRs are considered to have the greatest inherent safety thanks to Molten salts special thermophysical and neutronic properties This research investigates buoyancy driven flow in particular aspects that play a crucial role in the passive safety of advanced FHRs These aspects include the natural circulation system NCS the downcomer and the reactor core The GPU based high fidelity high order spectral element code NekRS is used to perform all simulations First the simplest possible NCS thermosiphons have been investigated by a series of Large Eddy Simulation LES for a wide range of Rayleigh and  $Lt/D$  ratios where  $Lt$  is the total length of the loop and  $D$  is the pipe diameters The simulation results demonstrate a capability to design thermosiphon loops with the prospect of Kairos Power FHR KP FHR design Then Direct Numerical Simulation DNS of mixed convection in the downcomer for a wide range of Reynolds Prandtl and Richardson numbers was performed following the inputs from Kairos Power An unprecedented high fidelity numerical DNS database has been established and new correlations for mixed convection in the downcomer of FHR with molten salt FLiBe are proposed The newly proposed correlations could predict the trend of the Nusselt number dataset in the heat transfer deterioration region within 10% of the DNS data confidence interval which is a considerable improvement compared to all other available correlations in the literature The generated downcomer DNS database will also help better understand Reynolds averaged Navier Stokes RANS model performance and physical explanation for turbulence model shortcomings Finally we perform a full core high fidelity LES with the consideration of the FLiBe variables properties for the test reactor Hermes of KP FHR design The heat transfer data has been obtained and compared with existing correlations in the literature A good agreement has been achieved between NekRS results and correlations providing confidence in the generated data The Nusselt number calculation results could highlight the potential issues of using the existing correlations and propose the correlation implementation depending on the operational regimes of FHRs Overall the high fidelity data and new correlations have implications for the design and optimization of FHRs providing valuable insights into flow stability turbulence characteristics and heat transfer performance

Near-wall Subgrid Scale Modeling for Large Eddy Simulation of Turbulent Buoyancy Driven Non-reactive and Reactive Flows Using One-dimensional Turbulence ,2007 The overall objective of this dissertation is the development of a near wall modeling and simulation approach for turbulent non reacting and reacting buoyancy driven flows The thrust of this effort is two fold The first is on the development of an advanced near wall stand alone model using One Dimensional Model ODT of Kerstein to account for the non linear interactions of turbulent convective radiation and diffusion processes Both non reacting and reacting cases are studied and the results are compared to the experimental data Overall excellent agreement

of simulation results to experimental data and to established inner and outer scaling laws for buoyancy driven boundary layers is obtained. A new buoyancy generation production term is proposed in this formulation for ODT which is based on the vorticity transport scaling arguments to account for the generation of large scale eddy mixing events. For reactive flow cases a new scaling theory is developed based on similitude analysis. The total mass flux of mixture fraction is identified as a fundamental scaling parameter. The verification of these scaling parameters was done using ODT predictions. The second focus of this effort is on the exploration of the ODT as an advanced near wall sub grid scale SGS model for large eddy simulation LES. The turbulence stresses for the LES grid are computed from the evolving near wall ODT field whereas the ODT instantaneous velocity and scalar field is obtained from the interpolation of LES field. Results are presented for the evolution of a non reacting boundary layer. Heat flux on the wall and the other flow field variables including temperature and velocities indicating that an overall better agreement for LES ODT coupled simulation is obtained than an LES solution of similar grid resolution when comparing both to the Direct Numerical Simulation DNS.

**Numerical Simulation of Synthetic, Buoyancy-induced Columnar Vortices** Nicholas Penha Malaya, 2016. Much of the solar energy incident on the Earth's surface is absorbed into the ground which in turn heats the air layer above the surface. This buoyant air layer contains considerable gravitational potential energy. The energy in this layer can drive the formation of columnar vortices, Dust Devils, which arise naturally in the atmosphere. A new energy harvesting approach makes use of this phenomena by creating and anchoring the vortices artificially and extracting energy from them. In this document we explore the characteristics of these vortices through numerical simulation. Computational models of the turning vane system which generates the vortex and the turbine used to extract energy have been developed and are presented here. These models have been tested against available experimental measurements and high fidelity simulations. Results from these studies are investigated as well as details of the columnar vortex structure. Finally we introduce a new approach used to optimize the system configuration to maximize the power extraction and the resulting proposed configuration from this effort. This work explored a wide variety of configurations and ultimately provides an assessment of the technological feasibility of the overall endeavor.

*Implementing Nonlinear Buoyancy and Excitation Forces in the WEC-Sim Wave Energy Converter Modeling Tool*, 2014. Wave energy converters WECs are commonly designed and analyzed using numerical models that combine multi body dynamics with hydrodynamic models based on the Cummins Equation and linearized hydrodynamic coefficients. These modeling methods are attractive design tools because they are computationally inexpensive and do not require the use of high performance computing resources necessitated by high fidelity methods such as Navier Stokes computational fluid dynamics. Modeling hydrodynamics using linear coefficients assumes that the device undergoes small motions and that the wetted surface area of the devices is approximately constant. WEC devices however are typically designed to undergo large motions in order to maximize power extraction calling into question the validity of assuming that linear hydrodynamic models

accurately capture the relevant fluid structure interactions In this paper we study how calculating buoyancy and Froude Krylov forces from the instantaneous position of a WEC device referred to as instantaneous buoyancy and Froude Krylov forces from herein changes WEC simulation results compared to simulations that use linear hydrodynamic coefficients First we describe the WEC Sim tool used to perform simulations and how the ability to model instantaneous forces was incorporated into WEC Sim We then use a simplified one body WEC device to validate the model and to demonstrate how accounting for these instantaneously calculated forces affects the accuracy of simulation results such as device motions hydrodynamic forces and power generation

**Buoyancy Effects for HFX AFT Cleansing Station**, 1997 This report presents the computational fluid dynamics simulation of the flow and contaminant concentration field for the aft cleansing station of naval ships The cleansing station is designed to prevent ingress of contaminants and consists of four rooms separated by doors and pressurized above ambient condition Purging of the rooms is achieved by flowing clean air through them via one way flow valves with a final exit valve dumping to the atmosphere The purpose of the simulation is to investigate the effect of buoyancy on the entrainment rate of contaminant for a typical door opening and closing sequence The domain for the simulation includes the last two rooms and the corridor outside the cleansing station For all aspects of the calculation the study employs the TASCflow version 2.6 software a finite volume code which solves the three dimensional Reynolds averaged Navier Stokes equations for fluid flow within complex geometries The flow simulation method and results of simulations are presented and discussed

Large Eddy Simulation of Compressible Turbulent Channel and Annular Pipe Flows with System and Wall Rotations Joon Sang Lee, 2004 The compressible filtered Navier Stokes equations were solved using a second order accurate finite volume method with low Mach number preconditioning A dynamic subgrid scale stress model accounted for the subgrid scale turbulence The study focused on the effects of buoyancy and rotation on the structure of turbulence and transport processes including heat transfer Several different physical arrangements were studied as outlined below The effects of buoyancy were first studied in a vertical channel using large eddy simulation LES The walls were maintained at constant temperatures one heated and the other cooled Results showed that aiding and opposing buoyancy forces emerge near the heated and cooled walls respectively In the aiding flow the turbulent intensities and heat transfer were suppressed at large values of Grashof number In the opposing flow however turbulence was enhanced with increased velocity fluctuations Another buoyancy study considered turbulent flow in a vertically oriented annulus Isoflux wall boundary conditions with low and high heating were imposed on the inner wall while the outer wall was adiabatic The results showed that the strong heating and buoyancy force caused distortions of the flow structure resulting in reduction of turbulent intensities shear stress and turbulent heat flux particularly near the heated wall Flow in an annular pipe with and without an outer wall rotation about its axis was first investigated at moderate Reynolds numbers When the outer pipe wall was rotated a significant reduction of turbulent kinetic energy was realized near the rotating wall Secondly a large eddy

simulation has been performed to investigate the effect of swirl on the heat and momentum transfer in an annular pipe flow with a rotating inner wall. The simulations indicated that the Nusselt number and the wall friction coefficient increased with increasing rotation speed of the wall. It was also observed that the axial velocity profile became flattened and turbulent intensities were enhanced due to swirl. As a part of the study of rotation effects, a large eddy simulation of a rotating ribbed channel flow with the heat transfer was investigated. The rotation axis was parallel to the spanwise direction of the parallel plate channel. Uniform heat flux was applied to the channel for two rates of rotation. The results showed that near the stable leading side the turbulent intensities and heat transfer were suppressed but turbulence was enhanced with increasing shear stress and turbulent kinetic energy near the unstable trailing side.

Development of a Software Tool to Analyze Personal Flotation Devices, 1992. A computer program Water Forces Analysis Capability WAFAC was developed to analyze forces acting on bodies in water. The WAFAC model computes buoyancy, wave excitation, added mass, and drag forces acting on a system of linked bodies in water. The bodies are assumed to be rigid ellipsoids. Sea states can be approximated by the superposition of up to ten regular waves or by a single regular wave of amplitude equal to the significant wave height and frequency based on the Pierson Moskowitz spectrum for fully developed ocean waves. The WAFAC model is structured to compute components of force and moment due to buoyancy, wave excitation, added mass, and drag using separate modules. During development, each module was tested to assess the accuracy of the results predicted. The resultant water force and moment acting on each ellipsoid in the system of linked bodies is determined by the vector sum of the individual force components. The WAFAC model was incorporated into the Articulated Total Body (ATB) model to analyze the dynamics of the system of linked bodies subject to the water forces and moments. To validate the model, simple geometries such as spheres and ellipsoids were modeled and the results compared with analytical solutions.

Bioengineering Biomechanics Buoyancy  
Computerized simulation dynamics Mathematical model Personal flotation devices

The Top Books of the Year Buoyancy Phet Lab Answers The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Buoyancy Phet Lab Answers : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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