

## Concentration and Molarity II: Dilution and Evaporation PhET-Chemistry Lab

**Introduction:** In the first part of this lab, you learned about the actions of solid salts added to water to form solutions of various concentrations. In this section, you will use a powerful and simple formula to determine the concentration of a solution when it has been diluted with additional water or made more concentrated due to evaporation of water.



Some handy equations for you to define:

Molarity \_\_\_\_\_

Dilution \_\_\_\_\_

Evaporation \_\_\_\_\_

**Procedure:** PHET-Poly with the Chem. Ph Chemistry Ph Concentration 100% 50%

$$M_1V_1 = M_2V_2$$

### Part I: Dilution

At this point you should be familiar with the Concentration simulation. Because some time may have passed, take a few minutes to re-learn the simulation. Pay particular attention to the effect of evaporation and addition of water to the solution's concentration.



How does the concentration change as additional water is added? \_\_\_\_\_

Why? \_\_\_\_\_



How does the concentration change as evaporation occurs? \_\_\_\_\_

Why is this? \_\_\_\_\_

Does evaporation change the concentration of a saturated solution? \_\_\_\_\_

Why is this? \_\_\_\_\_



Using the concentrated solution spigot, add a 10 Liter of Drink Mix to an empty beaker. What is the concentration?

\_\_\_\_\_ is this solution saturated? \_\_\_\_\_ How do you know? \_\_\_\_\_

Fill the beaker with another 10 Liter of water. What is the new concentration? \_\_\_\_\_

Complete the table below, using 100% Cobalt chloride in an empty beaker, writing the concentration in the boxes provided.

| Dilute .25L of spigot solution | .25L spigot + .25L water | .25L spigot + .50 L water | .25L spigot + .75 L water |
|--------------------------------|--------------------------|---------------------------|---------------------------|
|                                |                          |                           |                           |

Repeat the exercises, using 100% Potassium dichromate in an empty beaker.

| Dilute .25L of spigot solution | .25L spigot + .25L water | .25L spigot + .50 L water | .25L spigot + .75 L water |
|--------------------------------|--------------------------|---------------------------|---------------------------|
|                                |                          |                           |                           |

What do you notice about the concentration change as each addition of .25L of water is added to the concentrated spigot solution? \_\_\_\_\_

\_\_\_\_\_

# Phet Lab Simulation Lasers Answers

**VM Jensen**



## **Phet Lab Simulation Lasers Answers:**

*Artificial Intelligence in Education* Andrew M. Olney, Irene-Angelica Chounta, Zitao Liu, Olga C. Santos, Ig Ibert Bittencourt, 2024-07-01 This book constitutes the refereed proceedings of the 25th International Conference on Artificial Intelligence in Education AIED 2024 held in Recife Brazil in July 8 12 2024 Proceedings The 49 full papers and 27 short papers presented in this book were carefully reviewed and selected from 334 submissions The papers present results in high quality research on intelligent systems and the cognitive sciences for the improvement and advancement of education

*100 Brain-Friendly Lessons for Unforgettable Teaching and Learning (9-12)* Marcia L. Tate, 2019-07-24 Use research and brain based teaching to engage students and maximize learning Lessons should be memorable and engaging When they are student achievement increases behavior problems decrease and teaching and learning are fun In 100 Brain Friendly Lessons for Unforgettable Teaching and Learning 9 12 best selling author and renowned educator and consultant Marcia Tate takes her bestselling Worksheets Don't Grow Dendrites one step further by providing teachers with ready to use lesson plans that take advantage of the way that students really learn Readers will find 100 cross curricular sample lessons from each of the eight major content areas Earth Science Life Science Physical Science English Finance Algebra Geometry Social Studies Plans designed around the most frequently taught objectives found in national and international curricula Lessons educators can immediately replicate in their own classrooms or use to develop their own 20 brain compatible research based instructional strategies that work for all learners Five questions that high school teachers should ask and answer when planning brain compatible lessons and an in depth explanation of each of the questions Guidance on building relationships with students that enable them to learn at optimal levels It is a wonderful time to be a high school teacher This hands on resource will show you how to use what we know about educational neuroscience to transform your classroom into a place where success is accessible for all

[A Subject Guide to Quality Web Sites](#) Paul R. Burden, 2010-07-17 The Web is always moving always changing As some Web sites come others go but the most effective sites have been well established A Subject Guide to Quality Web Sites provides a list of key web sites in various disciplines that will assist researchers with a solid starting point for their queries The sites included in this collection are stable and have librarian tested high quality information the most important attribute information can have

**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 MPTL 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

**Collected Papers of Carl Wieman** Carl E. Wieman, 2008 Carl Wieman's contributions have had a major impact on defining the field of atomic physics as it exists today His ground breaking research has included precision laser spectroscopy using lasers and atoms to provide important table top tests of theories of elementary particle physics the development of techniques to cool and trap atoms using laser light particularly in inventing much simpler less expensive ways to do this the understanding of how atoms interact with one another and light at ultracold temperatures and the creation of the first Bose Einstein condensation in a dilute gas and the study of the properties of this condensate In recent years he has also turned his attention to physics education and new methods and research in that area This indispensable volume presents his collected papers with annotations from the author tracing his fascinating research path and providing valuable insight about the significance of the works

Essenzielle Quantenmechanik Peter Deák, 2015-11-09 Der Autor zeigt an Beispielen aus der Festkörperelektronik und der Quanteninformationstechnologie welche Rolle quantenmechanische Konzepte in der modernen Energie Kommunikations und Informationstechnik spielen

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Micromachining and Microfabrication Process Technology, 1995

Scientific and Technical Aerospace Reports, 1978

Micromachining and Microfabrication Process Technology Karen W. Markus, Semiconductor Equipment and Materials International, Society of Photo-optical Instrumentation Engineers, National Institute of Standards and Technology (U.S.), 1995

**2006 Physics Education Research Conference** Laura McCullough, Paula Heron, Leon Hsu, 2007-03-05 Syracuse New York 26 27 July 2006

**Polymer Science & Technology**, 1971

**Government Reports Announcements & Index**, 1995-12

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*CRREL Bibliography*, 1999

*Introduction to Simulations of Semiconductor Lasers* Marek S. Wartak, 2024 Simulations play an increasingly important role not only in

scientific research but also in engineering developments Introduction to Simulations of Semiconductor Lasers introduces senior undergraduates to the design of semiconductor lasers and their simulations The book begins with explaining the physics and fundamental characteristics behind semiconductor lasers and their applications It presumes little prior knowledge such that only a familiarity with the basics of electromagnetism and quantum mechanics is required The book transitions from textbook explanations equations and formulas to ready to run numeric codes that enable the visualization of concepts and simulation studies Multiple chapters are supported by Matlab code which can be accessed by the students These are ready to run but they can be modified to simulate other structures if desired Providing a unified treatment of the fundamental principles and physics of semiconductors and semiconductor lasers Introduction to Simulations of Semiconductor Lasers is an accessible practical guide for advanced undergraduate students of Physics particularly for courses in laser physics Marek S Wartak is a Professor in the Department of Physics and Computer Science at Wilfrid Laurier University Waterloo Ontario He has over 30 years of experience in semiconductor physics photonics and optoelectronics analytical methods modelling and computer aided design tools

**Simulation of the Interaction of Single-pulsed Optical Lasers with Targets in a Vacuum**, 1984 We present computer simulations of the interaction of a perturbed laser beam on an aluminum target at pulse widths from 0.5 to 2.0 ns and intensities from  $5 \times 10^7$  to  $10^{13}$  W/cm<sup>2</sup> at laser wavelengths varying from 0.25  $\mu$ m KrF laser to 10.6  $\mu$ m CO<sub>2</sub> laser We focus on impulse coupling identify the critical processes for momentum generation and discuss the uncertainties in modeling

**Materials Interaction with Femtosecond Lasers** Bernd Bauerhenne, 2021 This book presents a unified view of the response of materials as a result of femtosecond laser excitation introducing a general theory that captures both ultrashort time non thermal and long time thermal phenomena It includes a novel method for performing ultra large scale molecular dynamics simulations extending into experimental and technological spatial dimensions with ab initio precision For this it introduces a new class of interatomic potentials constructed from ab initio data with the help of a self learning algorithm and verified by direct comparison with experiments in two different materials the semiconductor silicon and the semimetal antimony In addition to a detailed description of the new concepts introduced as well as giving a timely review of ultrafast phenomena the book provides a rigorous introduction to the field of laser matter interaction and ab initio description of solids delivering a complete and self contained examination of the topic from the very first principles It explains step by step from the basic physical principles the underlying concepts in quantum mechanics solid state physics thermodynamics statistical mechanics and electrodynamics introducing all necessary mathematical theorems as well as their proofs A collection of appendices provide the reader with an appropriate review of many fundamental mathematical concepts as well as important analytical and numerical parameters used in the simulations

*Simulations of Photopumped X-ray Lasers* Il'dar Rifovich Al'Miev, 2000

**Assessing the Treatment of Airborne Tactical High Energy Lasers in Combat Simulations** Maurice C.

Azar,2003-03-01 In March 2000 the High Energy Laser Executive Review Panel presented the Department of Defense Laser Master Plan which reported that HEL weapons are ready for offensive and defensive applications One candidate platform capable of performing some of the reported applications is the Advanced Tactical Laser ATL an Advanced Concept Technology Demonstration program which places a high energy laser weapon on a tactical aircraft such as the V 22 C 130 or H 47 A way of assessing the utility of a new weapon system and the benefits of its inclusion in the force structure is the use of combat models This research examines by example issues involved with modeling an airborne tactical high energy laser weapon in a mission level combat simulation and evaluates possibilities to aggregate simulation results into higher level campaign models

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