

REVIEW QUESTIONS FOR FINAL EXAM (2nd Semester)

SECTION 12.1

Heat Transfer: $Q = mc\Delta T$ or $Q = mc(T_f - T_i)$

Specific Heat of Common Substances			
Material	Specific Heat $J/kg \cdot ^\circ C$	Material	Specific Heat $J/kg \cdot ^\circ C$
aluminum	900	lead	130
brass	376	nickel	210
carbon	712	silver	235
copper	385	steel	450
glass	840	water	4180
ice	2090	iron	450

1) Two solid objects are in contact as shown below.



Heat will always flow from object A to object B if object B has a lower

- a) mass b) total energy c) specific heat
d) temperature e) none of the answers

For questions 2-3: The diagram below shows two solids with their temperatures ($A=50^\circ C$, $B=80^\circ C$).



2) What occurs when the two solids are placed in contact with each other as shown?

- a) Heat energy flows from A to B. Solid A cools down.
b) Heat energy flows from A to B. Solid A gets hotter.
c) Heat energy flows from B to A. Solid B cools down.
d) Heat energy flows from B to A. Solid B gets hotter.

3) The net flow of heat energy will stop from one object to the other when they both have the same

- a) energy **b) temperature**
c) specific heat d) all the answers are correct

4) How much heat is transferred when a 0.2 kg piece of copper's temperature is raised from $50^\circ C$ to $80^\circ C$?

$$Q = mc\Delta T$$

$$Q = (0.2 \text{ kg})(385 \text{ J/kg} \cdot ^\circ C)(80^\circ C - 50^\circ C) = \boxed{2310 \text{ J}}$$

5) A 0.5 kg block of lead cools down from $30^\circ C$ to $20^\circ C$. How much heat was transferred?

$$Q = (0.5 \text{ kg})(130 \text{ J/kg} \cdot ^\circ C)(20^\circ C - 30^\circ C)$$

$$\boxed{Q = -650 \text{ J}}$$

6) The heat transfer of a substance is 9400 J. The mass of this substance is 2 kg and its temperature rises from $80^\circ C$ to $100^\circ C$. Based on the specific heat that you will calculate for this substance, what is it?

$$C = \frac{Q}{m\Delta T} = \frac{9400 \text{ J}}{(2 \text{ kg})(100^\circ C - 80^\circ C)} = 235 \text{ J/kg} \cdot ^\circ C$$

SILVER

7) From the choices below, which material would be better for a pan handle?

- a) brass 376 b) silver 235 c) copper 385
d) iron 450 e) zinc 388 f) lead 130

8) Provide a brief description of absolute zero and their temperatures in Kelvin (K) and degrees Celsius ($^\circ C$).

The lowest temperature when all particle motion stops. $T_C = -273^\circ C$, $T_K = 0 \text{ K}$.

9) The boiling point of water is $100^\circ C$. The boiling point of water in Kelvin (K) will be

$$T_K = 273 + T_C = 273 + 100 = \boxed{373 \text{ K}}$$

10) A 1-liter of water taken out of a 5-gallon bucket full of water at $20^\circ C$ will

- a) register a lower temperature than that of the water left in the bucket
b) have less thermal energy than that of the water left in the bucket
c) have less specific heat than that of the water left in the bucket

11) 243 K in degrees Celsius ($^\circ C$) is

$$T_C = T_K - 273 = 243 \text{ K} - 273 = \boxed{-30^\circ C}$$

12) The kinetic molecular theory can explain the existence of thermal energy in a substance.

- a) true** b) false

13) When using a thermometer for measuring the temperature of a substance, one should record the temperature

- a) about 2 minutes after the thermometer has been placed in the substance. That is usually the time needed for the liquid inside to expand or shrink completely.
b) until thermal equilibrium has been reached
c) until all the heat from the substance has been transferred to the thermometer
d) until the thermal energy from the substance is equal to the thermal energy of the thermometer
e) all of the answers

14) A calorimeter contains 1 kg of water at $20^\circ C$. A 0.20 kg block of zinc at $120^\circ C$ is placed in the water. What is the approximate final temperature of the system?

$$T_F = \frac{m_A c_A T_{Ai} + m_B c_B T_{Bi}}{m_A c_A + m_B c_B}$$

$$T_F = \frac{(1)(4180)(20^\circ C) + (0.2)(388)(120^\circ C)}{(1)(4180) + (0.2)(388)}$$

$$T_F = \frac{83600 + 9312}{4257.6} = \boxed{21.8^\circ C}$$

Physics Semester Final Review Key

Marianne S. Huger



Physics Semester Final Review Key:

Essential Advanced General Mathematics Third Edition Enhanced TIN/CP Version Michael Evans, Kay Lipson, Douglas Wallace, Sue Avery, 2011-04 The Essential VCE Mathematics series has a reputation for mathematical excellence with an approach developed over many years by a highly regarded author team of practising teachers and mathematicians This approach encourages understanding through a wealth of examples and exercises with an emphasis on VCE examination style questions New in the enhanced versions TI Nspire OS3 and Casio ClassPad calculator explanations examples and problems are integrated into the text Page numbers in the printed text reflect the previous TI nspire and Casio ClassPad version allowing for continuity and compatibility Digital versions of the student text are available in Interactive HTML and PDF formats through Cambridge GO

Pathway to a Professorship Donald E. Hattin, 2014-01-21 As an undergraduate student at UMass Don Hattin recorded in detail events which colored each day with the trials and triumphs of academic life He recounts the low cost of attending college fun and facts about dormitory life seemingly endless drudgery of homework unfounded fear of earning poor grades and classes of great interest versus those without redeeming characteristics or content Don describes the antics of dormitory life which leave the reader wondering how and when studying was done Don shares treasured memories of work in the College Store where many humorous events occurred and lively association with faculty and students in the Geology Department where genuine camaraderie accompanied work in the classroom laboratory and field As a T A at the University of Kansas Don discovered the joy of teaching and field work His master s thesis research on Cretaceous age rocks was prompted by a future member of the National Academy of Science leading initially to both fun and temporary futility of work on the Kansas prairie At the doctoral level Don was mentored by a world famous paleontologist who was intimidating in the office but a mellow field geologist Just once Don challenged his mentor on identification of a fossil and won During this interval a key geology faculty member departed resulting in Don s appointment as Instructor to teach two courses thus enabling Don to gain skills needed when assuming a professional role While interviewing in Ohio for a full time teaching position Don received a call from the geology chairman at Indiana University where a short visit resulted in offer of an Assistant Professorship Don s acceptance led to a career long association with that institution

The Dana Twins and Related Matters Richard Stein, 2013-12-11 During a thirty year career in medicine Melvin Aaron encounters many talented individuals including an ER clerk whose gender kept her from becoming a physician a former rock star who became a doctor almost by accident and the kindly woman in a blue sweater whose approach to problem solving involves thinking well outside the box When the Aaron family moves to Nashville they encounter a different type of talent a Music City promoter who seems able to create something out of next to nothing As the fortunes of the Aaron family become intertwined with the career of The Dana Twins a country pop singing group Dr Aaron must deal with the friction between his wife Tina and his teen aged son Jonah who intends to become a private investigator

Essentials of Physical Chemistry Don Shillady, 2011-07-27 At a time when U S high school students are producing low scores in mathematics and science on international examinations a thorough grounding in physical chemistry should not be considered optional for science undergraduates Based on the author s thirty years of teaching *Essentials of Physical Chemistry* merges coverage of calculus with chemistry and molecular physics in a friendly yet thorough manner Reflecting the latest ACS guidelines the book can be used as a one or two semester course and includes special topics suitable for senior projects The book begins with a math and physics review to ensure all students start on the same level and then discusses the basics of thermodynamics and kinetics with mathematics tuned to a level that stretches students abilities It then provides material for an optional second semester course that shows students how to apply their enhanced mathematical skills in a brief historical development of the quantum mechanics of molecules Emphasizing spectroscopy the text is built on a foundation of quantum chemistry and more mathematical detail and examples It contains sample classroom tested exams to gauge how well students know how to use relevant formulas and to display successful understanding of key concepts Coupling the development of mathematical skills with chemistry concepts encourages students to learn mathematical derivations Mini biographies of famous scientists make the presentation more interesting from a people point of view Stating the basic concepts of quantum chemistry in terms of analogies provides a pedagogically useful technique Covering key topics such as the critical point of a van der Waals gas the Michaelis Menten equation and the entropy of mixing this classroom tested text highlights applications across the range of chemistry forensic science pre medical science and chemical engineering In a presentation of fundamental topics held together by clearly established mathematical models the book supplies a quantitative discussion of the merged science of physical chemistry **Practice for the Army Tests** Arco Publishing Company, 1948 *Vector and Complex Calculus* Fabian Waleffe, 2024-10-25 Vector and complex calculus are essential for applications to electromagnetism fluid and solid mechanics and the differential geometry of surfaces Moving beyond the limits of standard multivariable calculus courses this comprehensive textbook takes students from the geometry and algebra of vectors through to the key concepts and tools of vector calculus Topics explored include the differential geometry of curves and surfaces curvilinear coordinates ending with a study of the essential elements of the calculus of functions of one complex variable Vector and Complex Calculus is richly illustrated to help students develop a solid visual understanding of the material and the tools and concepts explored are foundational for upper level engineering and physics courses Each chapter includes a section of exercises which lead the student to practice key concepts and explore further interesting results Resources in Education , 1995 Best 162 Medical Schools 2005 Edition Malaika Stoll, Princeton Review (Firm), 2004 Our Best 357 Colleges is the best selling college guide on the market because it is the voice of the students Now we let graduate students speak for themselves too in these brand new guides for selecting the ideal business law medical or arts and humanities graduate school It includes detailed profiles rankings based on student surveys like those

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Research in Instructional Television and Film J. Christopher Reid,Donald W. MacLennan,United States. Office of Education,1967 **Green Building: An Engineering Approach to Sustainable Construction** Christian M. Carrico,2025-06-05 Green Building An Engineering Approach to Sustainable Construction fills a void in green building which has good textbook options for practitioners architects and sustainability experts but not an engineering focused textbook focused on green building This new text takes an engineering approach to evaluating green building techniques systems and materials The book examines the built environment from inside out looking at minimizing environmental impacts while also considering the economics and energy use and efficiency While not a test prep book it will provide the knowledge foundation that will help prepare the students to take the Leadership in Energy and Environmental Design accreditation exam As students are often unclear on the evolving employment prospects in this field particularly for the engineer the textbook also features six case studies showing different career pathways for engineers in this arena Takes a quantitative and analytical engineering approach to evaluating green building techniques systems and materials Includes dedicated engineering examples and end of chapter problems that help develop students problem solving and analytical skills Combines conceptual and calculational aspects that link to both big picture issues e g how many Hiroshima blasts per year is the radiative forcing equivalent to along with everyday considerations like climate change real life experiences how much do I have to insulate my chicken coop to keep them warm passively in the winter Links textbook coverage to ABET criteria for accreditation of engineering programs *American Journal of Physics* ,1995 The American Catholic Quarterly Review ... ,1895 **The American Catholic Quarterly Review** James Andrew Corcoran,Patrick John Ryan,Edmond Francis Prendergast,1895

Creating the High Schools of Our Choice Tim Westerberg,2013-09-13 This book provides strategies tools and examples to help high school principals achieve the goals put forward in the No Child Left Behind legislation With its clear examples of best practices in leadership personalization and strategic use of data it will show you how to achieve your school s academic mission **The American Physics Teacher** ,1939-02 *Biology* Edward C. Gruber,1963 *Fostering the Increased Integration of Students with Disabilities* Marianne S. Huger,2011-07-07 All members of a community benefit from the diversity that students with disabilities bring to a campus and all campus constituents have an obligation to serve their diverse students This volume provides the preparation and knowledge your campus needs to meet the growing populations of students with disabilities Editor Marianne S Huger assistant dean of students at American University and contributing authors provide practitioners and faculty members with guidance concerning not just accommodating but including students

in the fabric of an institution They also provide specific guidance on four issues that are current paramount in service students with disabilities transition online learning Education Abroad and psychiatric disabilities Also included is an exploration of the legal framework for fostering the increased integration of students with disabilities This is the 134th volume of the Jossey Bass quarterly report series New Directions for Student Services An indispensable resource for vice presidents of student affairs deans of students student counselors and other student services professionals New Directions for Student Services offers guidelines and programs for aiding students in their total development emotional social physical and intellectual

Qualitative Inquiry in Geoscience Education Research Anthony D. Feig, Alison Stokes, 2011

WWII Letters of Three Brothers and Their Sister From 1942-1947 William D. Hedges, 2012-02-29

FIRST there is an error Chapter I title should be FAMILY not BOOT CAMP IN SAN DIEGO My mother unknown to me kept my several hundred letters home during WWII as well as those of my two brothers and sister and when I found them thought them worth publishing We were what was known as a Blue Star Family of Four The Gold Stars were for those killed in action While I don't have the figures I doubt there was a large number of families with four on active duty during WW II We were a very patriotic family First my elder brother Sam joined in January 1942 shortly after Pearl Harbor I followed in June of that year my sister entered the Waves in 1943 and my younger brother the Army Air Force in 1944 We all wrote many letters however most here in are mine as I have access only to those my siblings wrote to me The Navy is viewed primarily through my letters as I was transferred first to San Diego California for Boot Camp Subsequently orders sent me to Lakehurst New Jersey for training in Aerology i.e. weather forecasting Upon graduation I was assigned to duty in Houma Louisiana which was a LTA base whose airships scouted the gulf for German submarines Later I was ordered to officers training became an Ensign and served on the U S S Tanner a hydrographic survey ship Brother Sam served in the Pacific between New Caledonia and Australia Sister Jane became a Link Trainer i.e. she trained pilots and was stationed in Atlanta Georgia Brother John became a pilot but the war being over he saw no active duty However he decided to make a career in the military and saw more than enough action in Viet Nam to satisfy even him Following is the first letter I wrote home from Boot Camp in San Diego

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