

Homework 10

Due: Wednesday, October 11, 2017

You will receive one credit for each (your completed) assignment in due. [Grade Details](#)

Problem 29.8

1. An energy-level diagram for a sample below:

a) What is ΔE for this?

$$\Delta E = E_1 - E_2 = 1.5 \text{ eV}$$

$$\text{Einstein} = h\nu = \frac{E_1 - E_2}{\Delta E} = \frac{1.5 \text{ eV}}{1.5 \text{ eV}} = 1 \text{ Hz}$$

$$\Delta \nu = \frac{1}{\Delta E} = \frac{1}{1.5 \text{ eV}} = \frac{1}{1.5 \times 1.602 \times 10^{-19} \text{ J}} = 4.0 \times 10^{18} \text{ Hz} \approx 4.0 \times 10^{18} \text{ Hz}$$

$$\Delta \nu = \frac{1}{\Delta E} = \frac{1}{1.5 \text{ eV}} = \frac{1}{1.5 \times 1.602 \times 10^{-19} \text{ J}} = 4.0 \times 10^{18} \text{ Hz} \approx 4.0 \times 10^{18} \text{ Hz}$$

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Part A:

What wavelength is appear in the atomic emission line? (a) 700 nm

Enter your answers in ascending order separated by commas.

ANSWER:

$$\Delta \nu = \frac{1}{\Delta E} = \frac{1}{1.5 \text{ eV}} = \frac{1}{1.5 \times 1.602 \times 10^{-19} \text{ J}}$$

Part B:

What wavelength appear in the atomic absorption spectrum?

Enter your answers in ascending order separated by commas.

ANSWER:

$$\text{Assignment: } \Delta \nu = \frac{1}{\Delta E} = \frac{1}{1.5 \text{ eV}} = \frac{1}{1.5 \times 1.602 \times 10^{-19} \text{ J}} = 4.0 \times 10^{18} \text{ Hz}$$

$$\text{Einstein} = h\nu = \frac{E_1 - E_2}{\Delta E} = \frac{1.5 \text{ eV}}{1.5 \text{ eV}} = 1 \text{ Hz}$$

$$\Delta \nu = \frac{1}{\Delta E} = \frac{1}{1.5 \text{ eV}} = \frac{1}{1.5 \times 1.602 \times 10^{-19} \text{ J}} = 4.0 \times 10^{18} \text{ Hz}$$

Problem 29.31

Answer To Ucla Logic 20

Lingsheng Yao

Answer To Ucla Logic 20:

UCLA ,1980 *Instructional Patterns* Larry C. Holt,Marcella L. Kysilka,2006 I like the mix of theory and research background with thorough descriptions of classroom use vignettes and how to s Teresa Secules Piedmont College Instructional Patterns Strategies for Maximizing Student Learning examines instruction from the learners point of view by showing how instructional patterns can be used to maximize the potential for students to learn This book explores the interactive patterns that exist in today s classroom and demonstrates how teachers can facilitate the interactivity of these patterns to match their goals for student learning These interactive patterns are reinforced through the incorporation of medical cognitive and behavioral neuroscience research This unique book will serve as a core text for undergraduate and graduate courses in K 12 General Teaching Methods Middle School and Secondary Teaching Methods Elementary Teaching Methods or Instruction and Assessment Key Features Guides students in differentiating instructional practices to meet the needs of all students as well as in the practical issues of instruction Details interactive instructional patterns that include teacher centered patterns teacher student interactive patterns and student centered patterns Instructor Resources on CD contains PowerPoint slides test questions includes Multiple Choice Short Answer and Essay format and answers lecture outlines teaching activities Web resources and sample syllabi A web based Student Study Site provides e flashcards links to standards from U S states standards based project Web resources and access to full text articles in SAGE journals related to the text Proceedings 1988 VLDB Conference François Bancilhon,David J. DeWitt,1988-12 Fuzzy Automata and Decision Processes Madan M. Gupta,George N. Saridis,Brian R. Gaines,1977 *Scientific and Technical Aerospace Reports* ,1977 *Fuzzy Sets and Applications* Lotfi Asker Zadeh,1987-05-08 This volume contains the most significant papers written by L A Zadeh who in 1965 introduced the concept of a fuzzy set Fuzzy set theory has become the foundation for the development of the fields of artificial intelligence and expert systems especially in the applications of knowledge based systems As such Zadeh s work has influenced researchers around the world Zadeh has cooperated with editors in choosing the papers presented here and the editors have provided an introduction for each paper Topics covered include probability measures of fuzzy events similarity relations and fuzzy orderings a fuzzy algorithmic approach to the definition of complex or imprecise concepts and much more **Mathematical Reviews** ,2006 **Sagalee Haara** ,1994 **Everything for Math and Reading, Grade 4** ,2012-09-01 Everything for Math and Reading is the perfect practice tool that every fourth grader needs to achieve success in school Children work through fun and engaging activities that provide skill and drill in important reading and mathematical skills This 320 page workbook is full of bold appealing illustrations that motivate young learners and features practice pages to ensure children master the essential skills This workbook also includes a complete answer key and easy to understand directions Features Problem solving Deductive and analytical thinking Advanced math concepts Multiplication division Fractions Pre algebra Reading comprehension Cause effect Research skills **Very Large Data**

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