

* Notice - the group #1 example given for question #4 contains exceptions to the general trend. Know general trends, not exceptions.

Key P.T.

Periodic Trends

Can the properties of an element be predicted using a periodic table?

Why?

The periodic table is often considered to be the "best friend" of chemists and chemistry students alike. It includes information about atomic masses and element symbols, but it can also be used to make predictions about atomic size, electronegativity, ionization energies, bonding, solubility, and reactivity. In this activity you will look at a few periodic trends that can help you make those predictions. Like most trends, they are not perfect, but useful just the same.

1. Consider the data in Model 1 on the following page.

a. Each element has three numbers listed under it. Which value represents the atomic radius?

The first number under the Electron Shell Diagram

b. What are the units for the atomic radius?

pm - picometer

c. Write a complete sentence to convey your understanding of atomic radius. Note: You may not use the word "radius" in your definition.

The distance between the nucleus and the valence electrons of the atom.

2. In general, what is the trend in atomic radius as you go down a group in Model 1? Support your answer, using examples from three groups.

Atomic radius decreases as you go down a group (vertical column).
Grp #1 Li-152, Na-186, K-227 Grp #2 Ne-70, Ar-98, Kr-112
Grp #3 Be-112, Mg-160, Ca-197

3. Using your knowledge of Coulombic attraction and the structure of the atom, explain the trend in atomic radius that you identified in Question 2. *Hint:* You should discuss either a change in distance between the nucleus and outer shell of electrons or a change in the number of protons in the nucleus.

* *As you go down a group, the greater the distance between the nucleus and valence electrons, the smaller the attractive force.*

4. In general, what is the trend in atomic radius as you go across a period (left to right) in Model 1? Support your answer, using examples from two periods.

The general trend is atomic radius decreases in a period (horizontal row) moving left to right.

Grp #2 Ne-70, Mg-160, Al-143, Si-117, P-115, S-104, Cl-99, Ar-98

5. Using your knowledge of Coulombic attraction and the structure of the atom, explain the trend in atomic radius that you identified in Question 4.

As you move to the right across a period, protons are added to the nucleus. The greater number of protons increases the attractive force on the valence electrons. This decreases the atomic radius.

Periodic Trends Extension Key

Andrew Gillespie



Periodic Trends Extension Key:

Computer Science and Education in Computer Science Tanya Zlateva, Georgi Tuparov, 2025-03-13 This book constitutes the refereed post conference proceedings of the 20th International Conference on Computer Science and Education in Computer Science CSECS 2024 held in Sofia Bulgaria during June 28 30 2024 The 19 full papers and 4 short papers were carefully reviewed and selected from 49 submissions The papers cover the following topics Computer Science Implementations Computational Math Computing Technologies Implementations in Medicine Engineering Implementations Education in Computer Science *NBS Publications Newsletter* ,1981 A newsletter for librarians documentalists and science information specialists Journal of Research of the National Bureau of Standards United States. National Bureau of Standards,1988 *Extended Rotations and Culmination Age of Coast Douglas-fir* Robert O. Curtis, Pacific Northwest Research Station (Portland, Or.),1995 **The Hair Extensions Business Playbook** Barrett Williams, ChatGPT, 2025-03-14 Unlock the lucrative world of hair extensions with The Hair Extensions Business Playbook your ultimate guide to building a successful and sustainable enterprise in this vibrant industry This comprehensive eBook is designed to propel you from the conceptual stages to a thriving competitive business with actionable insights and strategic guidance Begin your journey by delving into the rich history and current trends of the hair extensions market Discover how to identify your niche and carve out a unique selling proposition that distinguishes your brand in a crowded marketplace As you learn about luxury virgin hair uncover the secrets to sourcing and pricing this premium product to appeal to discerning customers Your brand is your promise to the consumer and this guide provides you with essential tools to craft and communicate a compelling brand story From designing an impactful logo to engaging customers through targeted messaging build a brand identity that resonates and endures E commerce is at the heart of today's successful businesses Develop a user friendly online store and leverage SEO techniques to boost visibility and drive sales Explore the power of social media marketing and influencer collaborations maximizing your reach and building authentic connections with your audience This guide also delves deep into the logistics of creating a reliable supply chain and maintaining quality control ensuring your products consistently meet high standards Master customer service excellence with strategies to foster loyalty and handle inquiries proficiently Address legal and regulatory challenges head on and build a proficient sales team to fuel your business growth With insights into data analytics financial planning and managing challenges you'll make informed decisions and optimize your profitability Future proof your business by exploring opportunities for expansion whether through new product lines physical locations or international markets The path to sustained success lies in continual innovation and legacy planning The Hair Extensions Business Playbook is your roadmap to prosperity turn your passion into profit today Journal of Research of the National Bureau of Standards ,1981 **Bel Marin Keys Unit 5 Expansion of the Hamilton Wetland Restoration Project: Final general reevaluation report and technical appendices** ,2003 **Stochastic Methods for Flow in Porous Media** Dongxiao

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Energetics of Organometallic Species José A. Martinho Simões,2012-12-06 An overview of modern organometallic thermochemistry made by some of the most active scientists in the area is offered in this book The contents correspond to the seventeen lectures delivered at the NATO ASI Energetics of Organometallic Species Curia Portugal September 1991 plus three other invited contributions from participants of that summer school These papers reflect a variety of research interests and discuss results obtained with several techniques It is therefore considered appropriate to add a few preliminary words attempting to bring some unity out of that diversity In the first three chapters results obtained by classical calorimetric methods are described Modern organometallic thermochemistry started in Manchester with Henry Skinner and his pioneering work is briefly surveyed in the first chapter The historical perspective is followed by a discussion of a very actual issue the trends of stepwise bond dissociation enthalpies Geoff Pilcher another Manchester thermochemist makes in chapter 2 a comprehensive and authoritative survey of problems found in the most classical of thermochemical techniques combustion calorimetry applied to organometallic compounds Finally results from another classical technique reaction solution calorimetry are reviewed in the third chapter by Tobin Marks and coworkers More than anybody else Tobin Marks has used thermochemical values to define synthetic strategies for organometallic compounds thus indicating an application of thermochemical data of which too little use has been made so far

The Shock and Vibration Digest ,1987-07 **The Structure of Knowledge Using Natural Patterns** John Krey M.Ed., M.Sc. Chemistry,2020-01-31 The Structure of Knowledge Using Natural Patterns By John Krey The Structure of Knowledge Using Natural Patterns demonstrates through natural patterns how scientific structures concepts and facts should be organized in textbooks and in lessons Just like the Periodic Table of the chemical elements these patterns also present a periodicity that extends to all periodic knowledge knowledge that elaborates upon the truth

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their topics in a manner accessible to readers at the graduate level The book therefore serves as a valuable source for beginners as well helping them to learn modern nuclear physics **General Technical Report SE ,1989 Outdoor Recreation Benchmark 1988 ,1989 Acid Rain and Related Air Pollution Research ,1987 Eco-Innovation and Green Productivity for Sustainable Production and Consumption, 2nd edition** Munir Ahmad,Cem Işık ,Zeeshan Fareed,2025-09-12 With the graduation of time the desire for enhanced production and consumption scales motivated the global economies to opt for the race to the bottom approach leading to environmental unsustainability On the one hand economies focused on escalated production levels proliferating non renewable energy consumption and reducing energy productivity leading to production based carbon dioxide CO₂ emissions On the other hand international trade of high CO₂ emissions embedded goods has skyrocketed the consumption based CO₂ emissions Since production and consumption based CO₂ emissions challenge environmental sustainability there is an urgent need to pursue sustainable production and consumption to realize the United Nations Sustainable Development Goals SDGs dream In this regard eco innovation came into play to transition the conventional production setup to a cleaner production mode Eco innovation involves all types of technological advancements extending contributions to the SDGs In this regard climate technologies and environmental technologies involving renewable energy e g wind solar biogas energy efficient technologies e g energy efficient electric appliances environmental pollution reduction technologies e g carbon scrubbing filters water purifiers waste mitigation technologies play a tremendous role in mitigating climatic adversities and environmental unsustainabilities By contributing to the responsible use of natural capital eco innovation facilitates efficient energy utilization improving energy productivity as well as environmental sustainability Moreover eco innovation has the inherent potential to aggravate sustainable production modes through green productivity a tool to enhance industrial outputs with fewer harms to the environment As a progressive move green productivity growth promotes a new trend of producing more economic output by consuming fewer resources and safeguarding ecosystems The mainstream empirical literature substantiated that eco innovation and green productivity remained critical players in limiting CO₂ emissions and promoting environmental sustainability Literature also witnessed that eco innovation ameliorated energy productivity by motivating the countries to adopt cost saving and environmentally friendly technologies On the contrary the rebound effect supported the environmental deterioration impact of such technologies Against this backdrop this Research Topic will provide an opportunity to further delve into the influencing mechanisms triggered by eco innovation and green productivity growth on energy productivity and environmental sustainability for a futuristic perspective of sustainable production and consumption This Research Topic welcomes theoretical and empirical original research articles and reviews Research themes and areas include but are not limited to the following Links between eco innovation green productivity growth and energy productivity for sustainable production Climate technologies and carbon neutrality applications for sustainable production Firm level environment

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