

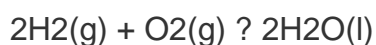
SHRIVER INORGANIC CHEMISTRY SOLUTION MANUAL PROBLEMS

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Shriver Inorganic Chemistry Solution Manual Problems

Problem 1:

Question: Calculate the enthalpy change for the reaction:



Answer:

Using bond enthalpies:

$$\Delta H = \Delta H(\text{bonds broken}) - \Delta H(\text{bonds formed})$$

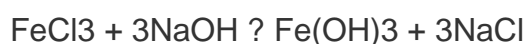
$$\Delta H = (2 \times 436 \text{ kJ/mol}) + (1 \times 498 \text{ kJ/mol}) - (4 \times 226 \text{ kJ/mol})$$

$$\Delta H = -572 \text{ kJ/mol}$$

Problem 2:

Question: Predict the products of the reaction between FeCl_3 and NaOH .

Answer:



Problem 3:

Question: Calculate the pH of a 0.1 M solution of H_2SO_4 .

Answer:

H₂SO₄ is a strong acid, so it completely dissociates in water:



$$[\text{H}^+] = 2 \times 0.1 \text{ M} = 0.2 \text{ M}$$

$$\text{pH} = -\log[\text{H}^+] = -\log(0.2) = 0.7$$

Problem 4:

Question: Determine the magnetic susceptibility of a compound with the following electronic configuration: d⁵.

Answer:

d⁵ configuration has three unpaired electrons, so it has a magnetic susceptibility:

$$\chi_m = \frac{3}{8} \times N \mu_B^2$$

where N is Avogadro's number and μ_B is the Bohr magneton.

$$\chi_m = \frac{3}{8} \times 6.022 \times 10^{23} \text{ mol}^{-1} \times (9.27 \times 10^{-24} \text{ J/T})^2$$

$$\chi_m = 1.34 \times 10^{-5} \text{ cm}^3/\text{mol}$$

Problem 5:

Question: Explain the hybridization of the central atom in the ion [Fe(CN)₆]⁴⁻.

Answer:

The central Fe atom in [Fe(CN)₆]⁴⁻ has a d²sp³ hybridization. This hybridization involves the promotion of one d electron to the p orbital, forming six sp³d² hybrid orbitals that overlap with the orbitals of the six CN⁻ ions, resulting in an octahedral geometry.

The Life of Christ in Stereo: Exploring the Harmony of Scripture

Q: What does "the life of Christ in stereo" mean?

A: This concept refers to the multifaceted nature of Christ's life and ministry as portrayed in the Gospels. Like a stereo system playing two separate channels that blend together, the Gospels each provide a unique perspective on Christ's life, offering a comprehensive and enriching view.

Q: How does each Gospel contribute to understanding Christ's life?

A: Matthew emphasizes Jesus' teaching and Jewish heritage, Mark presents him as God's suffering servant, Luke focuses on his compassion and grace, and John highlights his divinity and eternal nature. Together, they create a dynamic and multi-dimensional portrait that gives us a fuller understanding of who Christ is and what he did.

Q: What is the significance of this harmony?

A: The harmony between the Gospels demonstrates the trustworthiness of Scripture. Despite being written by different authors at different times, the Gospels present a consistent and cohesive narrative. This unity points to the divine inspiration of the Bible and the truthfulness of Christ's life and message.

Q: How can we apply the "life of Christ in stereo" to our own lives?

A: By studying the Gospels collectively, we gain a more comprehensive understanding of Christ's teachings and example. This enriched perspective can help us navigate our own lives, make wise decisions, and live in accordance with Christ's principles.

Q: What is the ultimate goal of this understanding?

A: The exploration of the life of Christ in stereo ultimately leads to a deeper relationship with God through Jesus. By immersing ourselves in the Gospels and embracing their collective insights, we draw closer to him and experience the transformative power of his grace and truth.

Writing That Works: A Q&A with Kenneth Roman

Q: What's the secret to writing that works?

A: According to renowned writing coach Kenneth Roman, "The secret is to connect with your reader." This means understanding their needs, interests, and pain points, and then tailoring your writing accordingly.

Q: How can I ensure my writing is clear and concise?

A: Roman advises, "Simplify your language, use active voice, and eliminate unnecessary words." Avoid jargon and technical terms, and strive for clarity and simplicity in your writing.

Q: What's the best way to develop a strong hook?

A: Roman recommends, "Start with a question, a startling fact, or a personal anecdote that grabs the reader's attention and makes them want to read more." Use powerful verbs and vivid imagery to hook your audience.

Q: How can I improve my persuasive writing skills?

A: Roman emphasizes the importance of "using evidence, data, and examples to support your claims." Appeal to the reader's logic and emotions, and provide compelling reasons why they should believe or take action.

Q: What's the most common mistake writers make?

A: Roman states, "The most common mistake is forgetting the reader." Always keep your audience in mind when writing, and ensure that your content is relevant and valuable to them. Remember, writing that works is all about connecting with your reader and delivering a clear, persuasive message.

Trading Using MACD, Bollinger Bands, and Multiple Time Frames

Q: What is MACD? A: The Moving Average Convergence Divergence (MACD) is a momentum indicator that measures the relationship between two moving averages of a security's price. It is useful for identifying trend changes and potential trading opportunities.

Q: What are Bollinger Bands? A: Bollinger Bands are a volatility indicator that plots two bands at a certain number of standard deviations from a simple moving average.

They help identify overbought or oversold conditions, as well as potential breakout points.

Q: How can I combine MACD and Bollinger Bands for trading? A: When MACD crosses above its signal line and the market is trading within the Bollinger Band's upper band, it can signal a potential buy opportunity. Conversely, when MACD crosses below its signal line and the market is trading within the lower Bollinger Band, it can indicate a potential sell signal.

Q: What is the benefit of using multiple time frames? A: Using multiple time frames allows traders to confirm signals and identify potential trading opportunities on different time horizons. For example, a bullish signal on the daily chart may be confirmed by a similar signal on the hourly chart.

Q: How do I implement a trading system using MACD, Bollinger Bands, and multiple time frames? A: Start by identifying the appropriate MACD and Bollinger Band settings for your instrument and timeframe. Look for price action that aligns with the signals from these indicators on multiple time frames. Manage your risk carefully with stop-loss orders and consider position sizing based on the trend strength and volatility. Remember that no trading system is foolproof, and it's important to practice good risk management and continuously monitor the market.

[the life of christ in stereo, writing that works kenneth roman, trading using macd bollinger bands and multiple time](#)

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