

GEOCHEMISTRY OF GERMANIUM IN THERMAL WATERS OF THE JELENIA GÓRA GEOTHERMAL SYSTEM (SUDETES, POLAND): SOLUTE RELATIONSHIPS AND AQUIFER MINERALOGY

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Abstract: A long-term (2004–2021) study of the chemical composition of thermal waters in the Jelenia Góra geothermal system provided information on a wide set of components. The subject of the present study is the geochemistry of germanium (Ge), which occurs in concentrations ranging from 2.7 to 6.3 µg/L in the waters studied. Interpretation of a set of 46 chemical analyses identified relationships between germanium and other elements in thermal waters from individual intakes. In the old thermal waters of Cieplice and Karpiński of deep circulation, germanium is derived from silicates and its concentration is controlled by the solubility of Ge-bearing quartz with an average Ge content of 1.5 µg/g. The source of germanium in the deep-old thermal water at Staniszków is mainly sulphides, most likely arsenopyrite, but the secondary contribution of Ge from silicates (biotites, amphiboles) should not be ignored. The mineral phase, responsible for controlling Ge activity in this water, cannot yet be identified. The shallow thermal waters at Cieplice, which are a mixture of old thermal waters and modern waters, differ from the deep waters. Germanium in shallow waters probably is derived from silicates, but owing to mixing, there are no chemical equilibrium conditions; the concentration of Ge is determined by the dynamic equilibrium of the mixed water components. The modern water of intake no. 2 (Cieplice) differs from other shallow waters and also shows similarities to the Staniszków water. The germanium in the no. 2 water probably comes mainly from ferromagnesian minerals (biotite, amphiboles), although the influence of sulphides cannot be excluded. The relationships of germanium to other elements, including the Ge/Si ratio, appear to be effective indicators of hydrogeochemical conditions. Thermal waters from the different locations show both similarities and differences in chemical composition, especially of minor and trace components. At the present, still weak stage of recognition, the Jelenia Góra geothermal system can be treated as an area of occurrence of local systems responsible for the quantity and quality of thermal waters in individual intakes.

Key words: Germanium, groundwater geochemistry, geothermal water, granite geochemistry, Karkonosze granite, Jelenia Góra geothermal system.

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Table of Contents Geochemistry Of Germanium

1. Understanding the eBook Geochemistry Of Germanium
 - The Rise of Digital Reading Geochemistry Of Germanium
 - Advantages of eBooks Over Traditional Books
2. Identifying Geochemistry Of Germanium
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Geochemistry Of Germanium
 - User-Friendly Interface
4. Exploring eBook Recommendations from Geochemistry Of Germanium
 - Personalized Recommendations
 - Geochemistry Of Germanium User Reviews and Ratings
 - Geochemistry Of Germanium and Bestseller Lists
5. Accessing Geochemistry Of Germanium Free and Paid eBooks
 - Geochemistry Of Germanium Public Domain eBooks
 - Geochemistry Of Germanium eBook Subscription Services
 - Geochemistry Of Germanium Budget-Friendly Options
6. Navigating Geochemistry Of Germanium eBook Formats

- ePub, PDF, MOBI, and More
 - Geochemistry Of Germanium Compatibility with Devices
 - Geochemistry Of Germanium Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Geochemistry Of Germanium
 - Highlighting and Note-Taking Geochemistry Of Germanium
 - Interactive Elements Geochemistry Of Germanium
 8. Staying Engaged with Geochemistry Of Germanium
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Geochemistry Of Germanium
 9. Balancing eBooks and Physical Books Geochemistry Of Germanium
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Geochemistry Of Germanium
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Geochemistry Of Germanium
 - Setting Reading Goals Geochemistry Of Germanium
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Geochemistry Of Germanium
 - Fact-Checking eBook Content of Geochemistry Of Germanium
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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