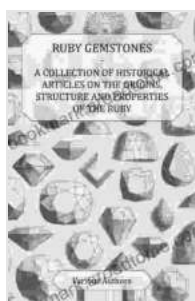


# Discover the Enchanting World of Ruby Gemstones: A Comprehensive Exploration of Their Origins, Structure, and Historical Significance

Rubies, with their captivating crimson hue, have captivated the hearts and imaginations of humankind for centuries. These precious gemstones, renowned for their beauty, rarity, and enduring value, hold a profound allure that transcends time and cultures.



## Ruby Gemstones - A Collection of Historical Articles on the Origins, Structure and Properties of the Ruby

by Steve Raymond

★★★★☆ 4.5 out of 5

Language : English

File size : 1797 KB

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Screen Reader : Supported

Enhanced typesetting : Enabled

Print length : 56 pages



In this comprehensive article, we embark on a captivating journey into the world of rubies, unlocking their enigmatic origins, intricate structure, and the remarkable historical legacy they have witnessed. Immerse yourself in the enchanting realm of gemology and uncover the profound impact rubies have had on human beliefs, artistic expressions, and the pursuit of knowledge.

## **The Enigmatic Origins of Rubies**

Rubies, along with sapphires, are members of the corundum mineral family. These gemstones owe their vibrant red coloration to trace amounts of chromium impurities within their crystalline structure.

Rubies are formed under extreme heat and pressure deep within the Earth's mantle, approximately 100 kilometers below the surface. Over millions of years, molten rock solidifies and forms crystals as it cools. When these conditions are ideal, rubies can develop, taking on their characteristic hexagonal crystal shape.

Ruby-bearing rocks are typically found in metamorphic environments, where intense heat and pressure have transformed pre-existing rocks. These rocks are often associated with marble, limestone, and gneiss.

## **Unveiling the Structure of Rubies**

Rubies possess a unique crystalline structure that distinguishes them from other gemstones. Their hexagonal crystal system results in a trigonal symmetry, giving rubies their characteristic six-sided shape.

At the atomic level, rubies are composed of aluminum and oxygen atoms arranged in a tightly packed hexagonal lattice. The presence of chromium ions within this lattice is responsible for the gemstone's captivating red color.

The hardness of rubies, second only to diamonds, is a testament to their robust atomic structure. This remarkable durability makes rubies highly resistant to scratching and wear, ensuring their beauty endures over time.

## **Rubies: A Historical Tapestry**

Rubies have played a pivotal role in human history, adorning crowns, inspiring legends, and captivating the minds of philosophers and scientists alike.

Ancient civilizations, including the Egyptians, Romans, and Greeks, revered rubies as symbols of power, passion, and protection. In medieval Europe, rubies were believed to possess medicinal properties, ward off evil, and promote fertility.

Throughout history, rubies have been associated with wealth, royalty, and religious ceremonies. Kings and queens have adorned themselves with ruby-encrusted crowns and scepters, symbolizing their authority and divine right to rule.

In the realm of art and literature, rubies have ignited the imaginations of countless creators. From the vivid descriptions in ancient poetry to the vibrant hues captured in Renaissance paintings, rubies have left an enduring mark on the human artistic expression.

Rubies, with their captivating beauty, enduring value, and profound historical significance, continue to captivate and inspire us today. Their enigmatic origins, intricate structure, and remarkable legacy make them a true wonder of the natural world.

Whether you are a passionate collector, a lover of fine jewelry, or simply someone who appreciates the beauty of gemstones, we invite you to delve deeper into the fascinating world of rubies. Discover their captivating

history, marvel at their intricate structure, and embrace their enduring allure.

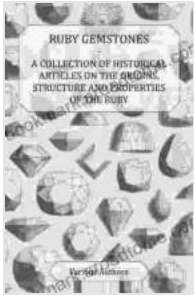
Unveil the enchanting world of rubies and experience the timeless beauty that has captivated humankind for centuries.

### **Additional Resources**

- [GIA Ruby Education](#)
- [Gemological Institute of America: Ruby](#)
- [Mindat: Ruby](#)



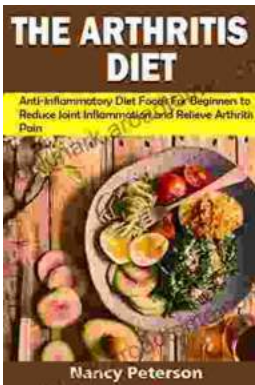
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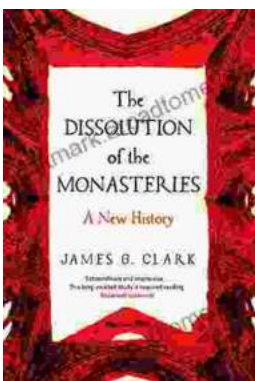
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