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*How to identify rough diamonds and how to*  
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~~Gemstones Ever Found~~ ~~How To Actually Find~~  
~~Your Own Rockhounding Location~~ *Malachite -*  
*The Brains of the Gemstone World* **Wisconsin**  
**Rocks: A Guide to Geological Sites in the**  
**Badger State** ~~Gems and Minerals at the~~  
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Oklahoma Rocks Part 1

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Finding Magical Gems- Rock Hounding in  
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Processes that Form Colored Gemstones | GIA  
Knowledge Sessions Webinar Series *Geology  
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Stoked by the tall tales of early 19th-century trapper-guides like Jim Bridger and Kit Carson about diamonds, rubies and other gems that could ... *Systematic Geology*, published in 1878, which ...

### *The Great Diamond Hoax of 1872*

Iowa produces common clays, construction sand and gravel, crushed stone, dimension stone (limestone and "dolostone"), gemstones, gypsum, lime. peat, and portland cement. It

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is known for geodes and ...

Gemstones is the first attempt in English to bring together the geological, mineralogical and gemmological developments that have taken place during the last thirty years. Though there have been many gemstone books published in that time, most have been concerned, understandably and rightly, with the science of gem testing and have covered that area very well. Details of the geological occurrence of many of the classic gemstones,

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and of nearly all those which have only recently been discovered, have been less adequately dealt with. Coverage has been restricted to a number of papers in a wide variety of geological and mineralogical journals. Gemstones hopes to get the balance right. In the preparation of the book all the journals and monographs in the field have been consulted so that the book should stand for some years as the authority to which gemmologists and others turn in the first instance. Ease of reference and depth of coverage make Gemstones both a reference book and a bench book. Acknowledgements I am

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grateful to Brian Jackson of the Department of Geology, Royal Museums of Scotland who read the manuscript and painstakingly indicated places where amendment or alteration was needed. I am also grateful to the publishers of the books on which the line illustrations are based. The colour plates present in the book derive from a number of sources, which I would like to acknowledge as follows. Plates 1, 4-15 and 17 Crown copyright reserved.

Vols. for 1964-v. 2, no. 1, 1965 include selected articles translated from geochemical



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papers from other languages, but primarily from Russian, German, French and Japanese.

Ruby, red corundum, is a gem mineral with mineral properties, gem characteristics and chemistry that are reliant on critical trace element substitutions in its aluminum oxide crystal structure. Ruby has attracted scientific and economic interest. It has already been studied extensively regarding its widespread global distribution and the diversity of its geological associations, as

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revealed by exploration and exploitation. Researchers are becoming increasingly aware that geographic typing of ruby characteristics and its host assemblages may guide further exploration and provide checks on reputed sources of both rough and cut stones. Genetic pointers, based on fluid and solid mineral inclusions, oxygen and other isotope values and pressure and temperature estimates, have already yielded much genetic information. Rare ruby in mantle xenoliths, TP ~1100°C, 2GPa, epitaxial diamond in ruby and ruby in diamond have special interest. Amid the present extensive documentation on

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this singular gem mineral, new insights and co-existing associations remain to be discovered. Although ruby largely appears in metamorphic and metasomatic source rocks, newer studies suggest it may also arise from magmatic sources. Age-dating of a range of mineral inclusions in ruby now allows more precise modelling of ruby genesis. Tectonic aspects of ruby genesis related to early collisional plate events on Earth are also a frontier for further understanding. In addition, ruby growth remains an important phase in metamorphic studies of events in some young collisional zones. This Special

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Issue planned for Minerals aims to attract further studies on this multi-origin gem mineral. Investigations at the 'economic border' of ruby and sapphire nomenclature and relevant treatments affecting ruby color will be considered.

From the dawn of time, ruby and sapphire have both attracted and fascinated humans in ways that few other items could. While objects of desire are found throughout the natural world, physical beauty is too often ephemeral. From the allure of a man, woman, flower or butterfly, through the fleeting

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moments of a sunset, there is little that lasts and practically nothing that can be passed down to our descendants. The exception is precious stones. Not only are they the most durable creations of mother nature, but their visual splendor is truly eternal. In this companion to his 2013 book, *Ruby & Sapphire--A Collector's Guide*, Richard Hughes examines these gems from the gemological standpoint, delving into these gems not just from the aesthetic, but also from the scientific point of view. The product of nearly 40 years of firsthand experience, it covers every aspect of the subject from A-Z.

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History, sources, prices, quality analysis, synthetics and treatments, everything is here. Ruby & Sapphire--A Gemologist's Guide represents the most comprehensive book ever written on a single precious stone. With over 1000 photos, maps and illustrations and 3500 references, it is nothing less than a tour-de-force of gemological scholarship.

Amazonite: Mineralogy, Crystal Chemistry and Typomorphism provides in-depth coverage of the geological setting, mineralogy, chemistry, spectroscopic parameters, typomorphic features, and potential

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technological and economical uses associated with amazonite discovery. Featuring detailed characterization of the geological settings of amazonite, as well a full investigation of its chemical composition, structural features, and properties with respect to each genetic type of granite, this essential reference covers all key aspects of amazonite and the benefits of its discovery. Both newcomers and seasoned professionals in the field of mineralogy worldwide will find this translation of the popular Russian text a welcome addition to the literature on amazonite. Presents a thorough guide to

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amazonite, a mineral in geologic formations that often signifies the presence of rare earth elements Characterizes the distinctive features of influence in the geological setting of amazonite, as well as in the relationship between deposits and specific genetic types of the granitoids Includes discussion of amazonite science topics, including the crystal chemical and spectrometric parameters of amazonite and the gemological significance of the amazonite Provides the first English translation of the popular Russian reference book on the topic



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In this text, attention is focused mainly on those literature is accessible, however, it is to be expected countries in western Africa lying south of the Sahara, that teachers and lecturers will know of it and will be that is, between about SON and  $15^{\circ}\text{N}$ , and westward able to acquaint their students with it, where neces of about  $15^{\circ}\text{E}$ . Parts of the region as far north as sary. about 200N are considered from time to time, for A glossary of terms is provided at the end of the purposes of correlation and cQntinuity. The map on volume, and there is a summary at the beginning of p. xiii indicates the

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approximate extent of the cover each chapter. age. This book is dedicated to the many colleagues and The principal aim is to provide a broad view of students with whom we have worked in West Africa West African geology as a whole, for undergraduates and who have stimulated and encouraged our teach who are studying for honours degrees in geology and ing and research in various ways. We hope also that it may help the work of international organizations who already have an understanding of basic geologi cal principles. It is increasingly important that such as AGID, CIFEG and UNESCO to encourage

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the growing trend towards geological co-operation geologists working in this region should see it as made up of geological 'provinces' which transcend and correlation between different countries in West national boundaries. Africa.

Gems have been used in the manufacture of jewellery and as ornaments since antiquity. Considering gems, recent statistics have shown that about 15 billion Euros are annually at stake. Nowadays, gemmology, i.e., the study of gem materials, is one of the most expanding fields in the earth sciences,

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positioned between academia and industry. As an applied science, in gemmology, the instruments used should be non- or microdestructive, and their cost should be reasonable both in terms of equipment and time consumption. Gemmology can also be used contribute to the development of pure science and in some cases, destructive techniques may have to be used. Taking into account the fact that gems are albeit rarely available for scientific research, this compilation of 20 articles by around 100 researchers from over 30 different institutions situated in 20 countries from around the globe, presented in

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the Special Issue entitled "Mineralogy and Geochemistry of Gems", offers very good examples on the application of various methods for their study which will hopefully contribute to our better understanding of gem formation in general and will enhance scientific debates attracting more scientists from various disciplines to get involved in this field.

### Precambrian Plate Tectonics

This richly illustrated tribute to the diamond covers all facets of nature's most

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coveted gem.

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