

3

The elements of crystallography

3.1 Introduction

The ancient Greeks noticed that quartz always occurred in forms having a characteristic shape and being bounded by flat faces. From the transparency of quartz, plus the presence of inclusions in it, it was thought that quartz resulted from the freezing water under intense cold, and the name *krustallos* meaning 'clear ice' was given to it. Numerous other minerals were known to exist, each of which also occurred in forms bounded by flat faces, and the name *krustallos* came to mean any mineral showing such forms. These forms are **crystals**, and their study is called **crystallography**.

A crystal can be defined as *a homogeneous solid bounded by naturally formed plane faces which can be related to a regular internal arrangement of atoms*. Crystals may be formed either by solidification from liquid or gaseous states or by precipitation from solutions, all of which processes can be called **crystallization**.

It is the regular internal arrangement of atoms which really defines whether or not a substance is crystalline. For example, in the natural state many diamonds are found which do not possess flat faces. However, their optical and physical properties, and their internal atomic structure are unique to that of the mineral diamond. On the other hand, many jewellers produce 'paste imitations' (glass copies) of famous diamonds which, despite their complete resemblance to the real thing externally, lack the regular internal structure; in other words, these paste imitations are *not* crystalline. In this book, however, we are concerned with the identification of minerals, so that the **external form** or **morphology** of crystals demands most attention. Nevertheless, it is important to consider some of the aspects of the internal structure of crystals at this point, although detailed accounts of the *crystal chemistry* of selected minerals, and of silicate minerals in particular, will be given in later chapters.

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Robert Peele



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Table of Contents Elements Of Mineralogy Crystallograp 4ed

1. Understanding the eBook Elements Of Mineralogy Crystallograp 4ed
 - The Rise of Digital Reading Elements Of Mineralogy Crystallograp 4ed
 - Advantages of eBooks Over Traditional Books
2. Identifying Elements Of Mineralogy Crystallograp 4ed
 - 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 Elements Of Mineralogy Crystallograp 4ed
 - User-Friendly Interface
4. Exploring eBook Recommendations from Elements Of Mineralogy Crystallograp 4ed
 - Personalized Recommendations
 - Elements Of Mineralogy Crystallograp 4ed User Reviews and Ratings

- Elements Of Mineralogy Crystallograp 4ed and Bestseller Lists
- 5. Accessing Elements Of Mineralogy Crystallograp 4ed Free and Paid eBooks
 - Elements Of Mineralogy Crystallograp 4ed Public Domain eBooks
 - Elements Of Mineralogy Crystallograp 4ed eBook Subscription Services
 - Elements Of Mineralogy Crystallograp 4ed Budget-Friendly Options
- 6. Navigating Elements Of Mineralogy Crystallograp 4ed eBook Formats
 - ePub, PDF, MOBI, and More
 - Elements Of Mineralogy Crystallograp 4ed Compatibility with Devices
 - Elements Of Mineralogy Crystallograp 4ed Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Elements Of Mineralogy Crystallograp 4ed
 - Highlighting and Note-Taking Elements Of Mineralogy Crystallograp 4ed
 - Interactive Elements Elements Of Mineralogy Crystallograp 4ed
- 8. Staying Engaged with Elements Of Mineralogy Crystallograp 4ed
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Elements Of Mineralogy Crystallograp 4ed
- 9. Balancing eBooks and Physical Books Elements Of Mineralogy Crystallograp 4ed
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Elements Of Mineralogy Crystallograp 4ed
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Elements Of Mineralogy Crystallograp 4ed
 - Setting Reading Goals Elements Of Mineralogy Crystallograp 4ed
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Elements Of Mineralogy Crystallograp 4ed
 - Fact-Checking eBook Content of Elements Of Mineralogy Crystallograp 4ed
 - 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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