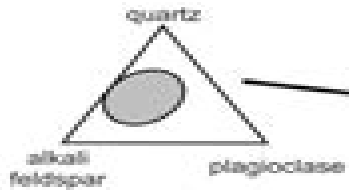
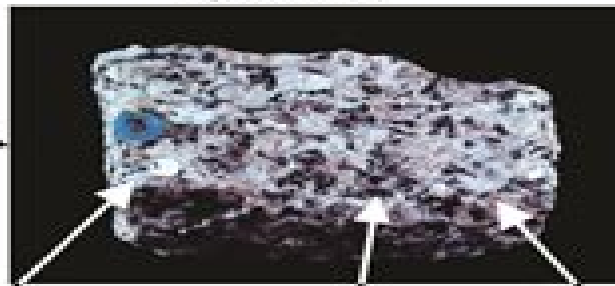


granite

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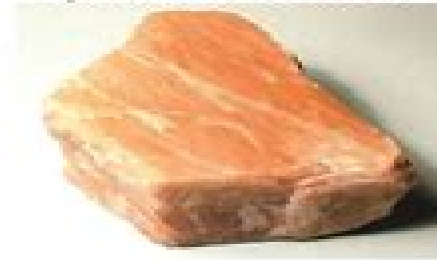
quartz



biotite



alkali feldspar
(orthoclase or microcline)



minerals

silicon
oxygen



potassium
magnesium
iron
aluminum
silicon
oxygen



potassium
sodium
aluminum
silicon
oxygen



elements

Elements Of Mineralogy

James Nicol



Elements Of Mineralogy:

Rutley's Elements of Mineralogy Frank Rutley, 2012-12-06 The last thorough revision of Rutley's Elements of Mineralogy appeared as the 23rd Edition in 1936. In subsequent editions an effort to keep abreast with the great progress in the science was made by small and often awkward modifications and especially by the addition of an independent chapter on the atomic structure of minerals. For this present edition the complete re-setting of the book has made possible not only the integration of the added chapter on atomic structure into its proper place in the accounts of the chemical and physical properties of minerals but also extensive rewriting and rearrangement of the material in the first part of the book. To this part also has been added a short chapter on the classification of minerals. In the second part the Description of Minerals numerous if not so extensive modifications and modernisations have been introduced. A couple of dozen new figures have been added mostly in the early part of the book. More specifically the major changes in this new edition are the following: The electronic structure of atoms supplies the guide lines for the whole account of mineral chemistry; additional items concern the electrochemical series of interest in the occurrence and metallurgical treatment of ores and chemical analysis. On the physical side the dependence of physical properties of minerals on their atomic structure is emphasized and in addition a brief account of radioactivity and isotopic age determination is given. *Rutley's Elements of Mineralogy* Herbert Harold

Read, Frank Rutley, 1970 **Rutley's Elements of Mineralogy** C.D. Gribble, 2012-12-06 Rutley's elements of mineralogy has been around for a long time certainly throughout my own lifetime and if my great grandfather had read geology it would have been prescribed reading for him too. It has been rewritten and revised frequently since first conceived by Frank Rutley in the late 19th century. Major revisions occurred in 1902 and then in 1914 when H.H. Read first took over the authorship and thereafter in 1936 and in 1965 when the last major changes occurred. It was with some trepidation that I agreed to attempt this revision. I had been asked to do it by Janet Watson in 1979 but various commitments delayed my start on it until 1984. This 27th edition encompasses a number of changes. Chapters 1-5 have the same headings as before but considerable changes have been made in all of them particularly 1, 3, 4 and 5. Comments sought prior to the revision revealed considerable disagreement about the role of blowpipe analyses in the book. I have only once had blowpipe analyses demonstrated to me and have never used them but there is no doubt that they are employed in many countries and many of the tests flame colour bead etc are still useful as rapid indicators of which element is present in a mineral. I have therefore kept blowpipe analysis information in Rutley but have relegated it to an appendix. Rutley's Elements of Mineralogy Herbert Harold Read, 1970

Elements of Mineralogy Richard Kirwan, 1794 *Elements of Mineralogy* Frank Rutley, 1916 **Elements of Mineralogy** Richard Kirwan, 1810 **Rutley's Elements of Mineralogy** Frank Rutley, 2012-05-20 The last thorough revision of Rutley's Elements of Mineralogy appeared as the 23rd Edition in 1936. In subsequent editions an effort to keep abreast with the great progress in the science was made by small and often awkward modifications and especially by the

addition of an independent chapter on the atomic structure of minerals For this present edition the complete re setting of the book has made possible not only the integration of the added chapter on atomic structure into its proper place in the accounts of the chemical and physical properties of minerals but also extensive rewriting and rearrangement of the material in the first part of the book To this part also has been added a short chapter on the classification of minerals In the second part the Description of Minerals numerous if not so extensive modifications and modernisations have been introduced A couple of dozen new figures have been added mostly in the early part of the book More specifically the major changes in this new edition are the following The electronic structure of atoms supplies the guide lines for the whole account of mineral chemistry additional items concern the electrochemical series of interest in the occurrence and metallurgical treatment of ores and chemical analysis On the physical side the dependence of physical properties of minerals on their atomic structure is emphasized and in addition a brief account of radioactivity and isotopic age determination is given

Elements of Mineralogy Brian Harold Mason,1959 **ELEMENTS OF MINERALOGY** RICHARD. KIRWAN,2018 *Elements of Mineralogy* Frank Rutley,1933 **Elements of mineralogy** James Nicol,1858 *Elements of Mineralogy (Classic Reprint)* Frank Rutley,2015-08-05

Excerpt from *Elements of Mineralogy* In the preparation of the revised edition of this book it has been considered advantageous to make somewhat fundamental alterations in several places The advance of Mineralogy in recent years the changed points of view of economic mineralogists and the needs of the present day student have all been deemed to justify such changes indeed one indication of the need for some such revision was shown in the ever increasing collection of appendices that were to be found in the former editions Nevertheless it has been the reviser's endeavour to conserve as much as possible of the original and all alterations have been carefully considered Part I treats of the Properties of Minerals The original chapter on Crystallography has been entirely rewritten and a chapter on Optical Properties has been added which it is hoped will be found useful to the student Part II consists of the description of Mineral Species Here the original arrangement has been followed except in regard to the silicates New introductions to the elements have been given specially important among these are introductions to the principal metals which together with certain statistics have been supplied by Mr W G Wagner About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at www.forgottenbooks.com This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

Elements of Mineralogy James Nicol,1873

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