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# RUTLEY'S ELEMENTS OF MINERALOGY

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27<sup>TH</sup> EDITION

Revised by C.D. Gribble



# Rutleys Elements Of Mineralogy

**Herbert Harold Read, Frank Rutley**



## **Rutleys 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

*Rutley's Elements of Mineralogy* Frank Rutley, Herbert Harold Read, 1970-12-31 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

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**Laterite Soil Engineering** M Gidigas, 2012-12-02 Laterite Soil Engineering is one of a few books about solving engineering problems with the help of engineering pedology This book presents the latest information on the laterite soils geotechnical characteristics and engineering behavior It shows that laterite soils are different from natural soils and that most laterite soils can be evaluated for engineering purposes using accepted theories and well known test procedures for temperate zone soils This book also shows that modern concepts based on pedological considerations are very useful and take a logical approach to the identification and evaluation of laterite soils for engineering purposes The first four chapters focus on reviewing information about the processes of tropical weathering and laterization Chapter five summarizes information about the location morphology and composition of laterite soils Chapter six highlights the geotechnical implications of the pedogenic processes of tropical weathering and it emphasizes the contribution of the results of these pedogenic processes to the deviations of engineering behavior of the problem of laterite soils In addition chapter seven discusses the influence of laterite soil genesis on the physico-chemical characteristics based on comparing the properties of three genetic soil groups formed under three different weathering conditions Chapters eight through nineteen discuss the geotechnical characteristics and evaluation of laterite soils and the effects of pedogenesis and soil forming factors on the geotechnical and stabilization characteristics of laterite soils The last chapter discusses the little information that exists on the application of laterite soils in engineering problems

**Engineering Geology** Mishra, Anil Kumar, The book discusses

different branches of geology earths internal structure composition of the earth hydrogeology geological structures and their impact on terrain stability and solution of several engineering problems related with stability and suitability of site for construction     *Archaeological Soil and Sediment Micromorphology* Cristiano Nicosia, Georges Stoops, 2017-10-23

*Archaeological Soil and Sediment Micromorphology* goes beyond a mere review of current literature and features the most up to date contributions from numerous scientists working in the field The book represents a groundbreaking and comprehensive resource covering the plethora of applications of micromorphology in archaeology *Archaeological Soil and Sediment Micromorphology* offers researchers students and professionals a systematic tool for the interpretation of thin sections of archaeological contexts This important resource is also designed to help stimulate the use of micromorphology in archaeology outside Europe where the technique is less frequently employed Moreover the authors hope to strengthen the proper application of soil micromorphology in archaeology by illustrating its possibilities and referring in several cases to more specialized publications for instance in the field of plant remains pottery and phytoliths Written for anyone interested in the topic this important text offers Contributions from most of the world s leading authorities on soil micromorphology A series of chapters on the major topics selected among the most recurrent in literature about archaeological soil micromorphology Systematic descriptions of all important micromorphological features Special analytical tools employed on thin sections such as SEM EDS image analysis fluorescence microscopy mass spectrometry among others Numerous cross references 400 illustrated full colour plates The resource provides the most current and essential information for archaeologists geoarchaeologists soil scientists and sedimentologists Comprehensive in scope *Archaeological Soil and Sediment Micromorphology* offers professionals and students a much needed tool for the interpretation of thin sections of archaeological contexts     **Soil Structure and Fabric** R Brewer, JR Sleeman, 1988-01-01 *Soil Structure and Fabric* sets out a method of describing the structure and fabric of soils that proceeds consistently from macroscopic descriptions in the field to descriptions from standard thin sections as viewed with a light microscope Most of the book is devoted to the description and classification of the microscopic characteristics of soils     **Elements of Mineralogy** Frank Rutley, 1916

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