

Chapter 1 : Formats and Editions of Atlas of non-silicate minerals in thin section [www.nxgvision.com]

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Joan Carles Melgarejo, Dr. Carles Ayora and Dr. Manel Labrador during the presentation. The new publication is especially aimed at students in advanced levels or at students who already hold a degree in Geology, Geological Engineering and Mining Engineering. Martin, co-editor of The Canadian Mineralogist. Pere Quetglas; the vice-rector for Teaching Staff, Dr. Manel Viladevall; the dean of the Faculty of Geology, Dr. Carles Ayora, and Dr. Joan Carles Melgarejo, co-author of the publication. A reference work in the advanced studies of mineralogy and mineral resources The project of this atlas began some years ago with the goal of providing advanced students of mineralogy and mineral resources with a reference book, which includes detailed information on minerals that are interesting for the scientific activity, regardless of whether they are common or rare minerals. This first atlas, in which more than twenty authors from around the world collaborated, included information on mineral assemblages, both in natural and synthetic environments. The work thoroughly describes the characteristics of about mineral species, and contains bibliography of all of them, as well as a selection of 2, colour photographs. All sections were carefully studied through a series of techniques that enable the accurate identification of more complex minerals. Some of these techniques are: The work, published in English, follows a scientific and editorial line that began with the previous editions of the atlas. The new volume presents an exhaustive compilation of information on non-silicate minerals carbonates, sulphates, borates, arsenates, tungstates, etc. The contents of the book are organized in sixteen chapters according to the traditional Dana classification of minerals. Each chapter starts with an introduction into the mineral group and describes the most important details of each mineral, such as name and formula approved by the International Mineralogical Association IMA , physical properties, crystallographic information, optical parameters, industrial applications, etc. The selection of bibliographical references must also be highlighted, as they contain key information of each mineral species. All minerals have been chosen because of their general interest and their petrographic, economic, environmental importance. The most exhaustive collection of systematic mineralogical exploration in thin section The new publication is especially aimed at students in advanced levels or at students who already hold a degree in Geology, Geological Engineering and Mining Engineering, or related to the study of solid substances Materials Science, Environmental Science, Archaeology, and also Chemistry, Medicine, and Pharmacy , areas in which the thin section techniques are not usually taken into account on a daily basis work. The volume, with 1, copies printed in the first edition, comes with a DVD disk containing photos of considerable scientific interest, which are used to illustrate the attributes of the minerals. In the nearer future new publications based on silicates and on minerals under reflected light are foreseen.

Chapter 2 : Universitat de Barcelona - Presentation of the Atlas of Non-Silicate Minerals in Thin Section

Note: Citations are based on reference standards. However, formatting rules can vary widely between applications and fields of interest or study. The specific requirements or preferences of your reviewing publisher, classroom teacher, institution or organization should be applied.

Rock-forming minerals of metamorphic rocks, in thin section a work in progress

- 1 Olivine: Plane-polarised light, width of view 2. Polars crossed, width of view 2. Plane-polarised light, width of view 0. Polars crossed, width of view 0. Plane-polarised light, width of view 1 mm. Polars crossed, width of view 1 mm. Plane-polarised light, width of view 6 mm. Plane-polarised light, field of view 5 mm
- 12 Garnet: Plane-polarised light, field of view 4 mm
- 13 Garnet: Polars crossed, field of view 4 mm
- 14 Garnet: Plane-polarised light, field of view 3. Plane-polarised light, field of view 2. Polars crossed, field of view 2. Plane-polarised light, field of view 5 mm
- 18 Sillimanite Sillimanite fibrolite , intergrown with biotite in schist. Polars crossed, field of view 5 mm
- 19 Sillimanite Sillimanite, nodules of fibrolite in schist. Plane-polarised light, field of view 5 mm
- 20 Sillimanite Sillimanite, nodules of fibrolite in schist. Polars crossed, field of view 5 mm
- 21 Sillimanite Sillimanite, prismatic, in aluminous granulite. Plane-polarised light, field of view 8 mm
- 24 Andalusite Andalusite chiastolite with pink core zone, in graphitic hornfels. Ordinary light, field of view 10 mm
- 26 Kyanite Kyanite, in schist. Plane-polarised light, field of view 1 mm
- 33 Staurolite Staurolite poikiloblast, in hornfels. Plane-polarised light, field of view 2 mm
- 34 Staurolite Staurolite poikiloblast, in hornfels. Polars crossed, field of view 2 mm
- 35 Chloritoid Chloritoid, in schist. Plane-polarised light, field of view 2 mm
- 36 Chloritoid Chloritoid, in schist. Clinozoisite, showing anomalous interference colours. Polars crossed, field of view 1 mm
- 40 Clinozoisite Epidote group: Clinozoisite, poikiloblast in eclogite. Clinozoisite, poikiloblast in eclogite, showing zoned birefringence core more Fe-rich. Zoisite, in high-pressure gneiss. Plane-polarised light, field of view 1. Zoisite, showing anomalous blue interference colours and narrow rim of clinozoisite. Polars crossed, field of view 1. Piemontite, in manganiferous metachert. Plane-polarised light, field of view 1 mm
- 47 Piemontite Epidote group: Polars crossed, field of view 1 mm
- 48 Lawsonite Lawsonite, pale brownish, with glaucophane, chlorite and white mica, in blueschist. Plane-polarised light, field of view 1 mm
- 49 Lawsonite Lawsonite, in blueschist. Polars crossed, field of view 1 mm
- 50 Cordierite Cordierite, granoblastic-polygonal texture, granulite facies. Polars crossed, field of view 5 mm
- 51 Cordierite Cordierite, poikiloblastic, in low-P spotted schist Buchan type. Plane-polarised light, field of view 5 mm
- 52 Cordierite Cordierite, poikiloblastic, in low-P spotted schist Buchan type. Polars crossed, field of view 5 mm
- 53 Cordierite Cordierite, showing complex sector twinning, in spotted hornfels. Plane-polarised light, field of view 5 mm
- 57 Cordierite Cordierite, with sillimanite inclusions, in granulite-facies metapelitic gneiss. Polars crossed, field of view 5 mm
- 58 Osumilite Osumilite double-ring silicate resembling cordierite, diagnostic of ultrahigh-T metamorphism , with feldspar and orthopyroxene. Plane-polarised light, field of view 5 mm
- 61 Clino- and Orthopyroxene Pyroxene: Polars crossed, field of view 5 mm
- 62 Clinopyroxene Pyroxene: Polars crossed, field of view 5 mm
- 63 Diopside Pyroxene: Plane-polarised light, field of view 1 mm
- 64 Diopside Pyroxene: Polars crossed, field of view 1 mm
- 65 Enstatite Pyroxene: Plane-polarised light, field of view 5 mm
- 66 Enstatite Pyroxene: Polars crossed, field of view 5 mm
- 67 Enstatite Pyroxene: Plane-polarised light, width of view 19 mm
- 68 Jadeite Pyroxene: Plane-polarised light, field of view 4 mm
- 81 Hornblende Amphibole: Note low-order interference colours, partly masked by body colour. Polars crossed, field of view 4 mm
- 82 Hornblende Amphibole: Plane-polarised light, field of view 2 mm
- 83 Hornblende Amphibole: Plane-polarised light, field of view 2 mm
- 84 Hornblende Amphibole: Note greenish rims resulting from retrograde change. Plane-polarised light, field of view 4 mm
- 85 Anthophyllite Amphibole: Plane-polarised light, field of view 2 mm
- 86 Anthophyllite Amphibole: Polars crossed, field of view 2 mm
- 87 Gedrite Amphibole: Plane-polarised light, field of view 6 mm
- 88 Gedrite Amphibole: Polars crossed, field of view 6 mm
- 89 Glaucophane Amphibole: Plane-polarised light, prisms parallel to polariser. Plane-polarised light, prisms normal to polariser. Plane-polarised light, field of view 6 mm
- 95 Muscovite Muscovite bright colours , with biotite, garnet and kyanite in schist. Polars crossed, field of view 6 mm
- 96 Muscovite Muscovite, in phyllite.

Plane-polarised light, field of view 1 mm 99 Muscovite phengite Muscovite var. Central grain will give a uniaxial figure 3T polytype. Polars crossed, field of view 1 mm Biotite Biotite, poikiloblast in biotite-grade schist greenschist facies. Plane-polarised light, field of view 2 mm Biotite Biotite, in high-grade gneiss with cordierite and quartz. Plane-polarised light, field of view 1 mm Stilpnomelane Stilpnomelane brown, high birefringence , in metabasic greenschist. Polars crossed, field of view 1 mm Talc Talc, in metasomatised peridotite. Polars crossed, field of view 3. Note purplish-brown anomalous interference colour. Plane-polarised light, field of view 2 mm Chlorite Chlorite, Mg-chlorite with spinel, in forsterite marble. Note bright first-order white interference colour. Polars crossed, field of view 2 mm.

Chapter 3 : Atlas of Rocks, Minerals, and Textures

This is Special Publication 7 of The Canadian Mineralogist, and presents an exhaustive compilation of information about most of the non-silicate mineral species likely to be encountered in advanced research in the geological sciences.

Chapter 4 : Rocks and Minerals in Thin Section: A Colour Atlas - CRC Press Book

The Atlas of Non-Silicate Minerals in Thin Section was published in a special issue of the journal The Canadian Mineralogist. The new publication is especially aimed at students in advanced levels or at students who already hold a degree in Geology, Geological Engineering and Mining Engineering.

Chapter 5 : Atlas of Metamorphic Minerals

On Friday 28 March, at , the Atlas of Non-Silicate Minerals in Thin Section was presented at the Aula Magna of the UB's Faculty of Geology. This work was published in a special issue of the journal The Canadian Mineralogist and has been carried out by the experts Joan Carles Melgarejo, from.

Chapter 6 : Index of Minerals in Thin Section

Title / Author Type Language Date / Edition Publication; 1. Atlas of non-silicate minerals in thin section: 1.

Chapter 7 : Special Publications - Mineralogical Association of Canada

From either of these lists, the user can access any page in the atlas by clicking on the mineral or topic name. The first section deals with seven fundamental optical properties, followed by sixty-five minerals and images of alteration textures. Each page includes the mineral name, chemical formula, two to four images, and explanatory text.

Chapter 8 : An Atlas of Minerals in Thin Section - Daniel J. Schulze - Oxford University Press

The Atlas of Non-Silicate Minerals in Thin Section, Special Publication 7 of The Canadian Mineralogist, presents an exhaustive compilation of information about most of the non-silicate mineral species likely to be encountered in advanced research in the geological sciences.

Chapter 9 : A color atlas of rocks and minerals in thin section - W. S. MacKenzie, A. E. Adams - Google Books

video atlas of minerals in thin section This page is under construction. I'm adding roughly new mineral entries every day or two, so check back periodically as this collection of videos of minerals in thin section grows.