



Dana Crystal Models - tetragonal



ntdesign

VIEW IN BROWSER

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Summary

This is a reproduction of "The Dana Set of Wooden Crystal Models".

[Learning](#) > [Other 3D Objects for Learning](#)

Tags: [models](#) [crystals](#) [crystallography](#)

This is a reproduction of "The Dana Set of Wooden Crystal Models" originally produced by Dr. Krantz Rheinisches Mineralien-Kontor (Bonn).

triclinic
monoclinic
orthorhombic
hexagonal/trigonal
tetragonal
cubic

I recreated the models based on reference images in "Dana's Textbook of Mineralogy" (<https://archive.org/details/DanasTextbookOfMineralogy>), with forms taken from the catalogue available here (provided by the company): https://mineralogy.eu/models/Krantz/Krantz_31_3.pdf

Whenever a model corresponds to a crystal structure, the known unit cell constants were used. In all other cases I approximated to match the pictures in Dana's book. Please note that I do not have an original set to

compare, so there might be small differences. Also the scaling is arbitrary and probably totally different.

There's a labelled (by catalogue number) and unlabelled version. I also include the OpenScad file I used for embossing, in case somebody wants to adjust the labels.

Changes I made to correct apparent errors in the catalogue (to match Dana's book):

No. 64: {120} added (missing in catalogue)

No. 87: {11-1} removed (not in the book/picture)

No. 94: {135} changed to {153} to match picture

No. 95: face not in catalogue, used {121} to match picture

Big Thanks to Prof. Gervais Chapuis for making me aware of this set's existence and sending me his catalogue!

Print Settings

Printer:

Biqu B1

Supports:

Yes

Resolution:

0.2mm

Infill:

10%

Filament: 3DJake PLA dark green

Notes:

Some of the models require supports. Models are pre-oriented for best print quality.

Category: Learning

Model files



85.stl



73.stl



76.stl



70.stl



77_labelled.stl



71_labelled.stl



78_labelled.stl



62.stl



65.stl



82.stl



84_labelled.stl



66.stl



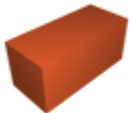
84.stl



71.stl



94.stl



62_labelled.stl



90.stl



89.stl



70_labelled.stl



93_labelled.stl



72.stl



91.stl



65_labelled.stl



94_labelled.stl



85_labelled.stl



92_labelled.stl



69_labelled.stl



89_labelled.stl



92.stl



95.stl



66_labelled.stl



74.stl



77.stl



81.stl



79_labelled.stl



73_labelled.stl



75.stl



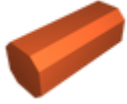
90_labelled.stl



69.stl



93.stl



63_labelled.stl



87_labelled.stl



76_labelled.stl



67_labelled.stl



83_labelled.stl



80_labelled.stl



81_labelled.stl



79.stl



86_labelled.stl



87.stl



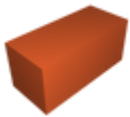
95_labelled.stl



88.stl



86.stl



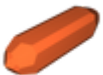
61_labelled.stl



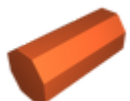
83.stl



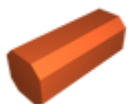
88_labelled.stl



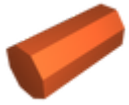
80.stl



64_labelled.stl



63.stl



64.stl



67.stl



91_labelled.stl



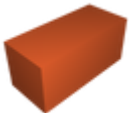
75_labelled.stl



78.stl



72_labelled.stl



61.stl



74_labelled.stl



82_labelled.stl



embossing.scad

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