

EBSD

So you want to do ebsd but you don't know how it works and what it does ?

This presentations gathers some basic general knowledge about ebsd:

<https://drive.google.com/file/d/1nKq87X3f0I-tkE4bAqWC2Fu3torVCFBh/view?usp=sharing>

MTEX

MTEX is a free matlab toolbox for EBSD data analysis: <https://mtex-toolbox.github.io/>

Here are a few scripts that could be usefull for some applications:

- [Import EBSD data from the Oxford camera with the right reference frame](#)
 - [Compute the depth of each point of a sample relative to its surface whatever its geometry](#)
 - [Automatic EBSD map stiching](#)
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EMSOFT

EMSOFT is an open-source code for dictionary indexing of EBSD pattern. It can be usefull when classic EBSD indexation fails due to :

- large plastic deformations
- pseudo-symetries
- pattern similarities

The original code can be found here: <https://github.com/EMsoft-org/EMsoft>

The official tutorial explains how it works: <https://github.com/EMsoft-org/EMsoft/wiki/DItutorial>

The following presentation summarizes the main concepts and provide guidelines to use EMSOFT with the school microscope on the cluster:

https://drive.google.com/file/d/1rPmuguwfiDyxVGP2NfSrjGjED-w0_pLw/view?usp=sharing

Usefull scripts:

- [EDAX_conv.py](#): python script to convert a list of pattern pictures from the Oxford EBSD camera (the one installed on the Zeiss) to an EMSOFT compatible HDF5 format

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