



Practical Microtomography of Soil Structure and other Geological Materials.

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Recent developments in computer hardware and advances in software have dramatically reduced X-ray CT scan times and reconstruction times. It is now possible to scan samples in a matter of minutes, obtaining higher resolution volumes than those which used to take several hours not so long ago.

We discuss how this makes possible a very practical sample scanner for use in soil science and other geological applications, which can rapidly obtain detailed information about the microstructure of soils, root networks and rocks. As well as describing how to obtain accurate dimensional information, density calibration is also explained.

Keywords:

X-ray, CT, tomography, micro-CT, microtomography, soil science, geology, geological, rocks, dimension, density, calibration, calibrated