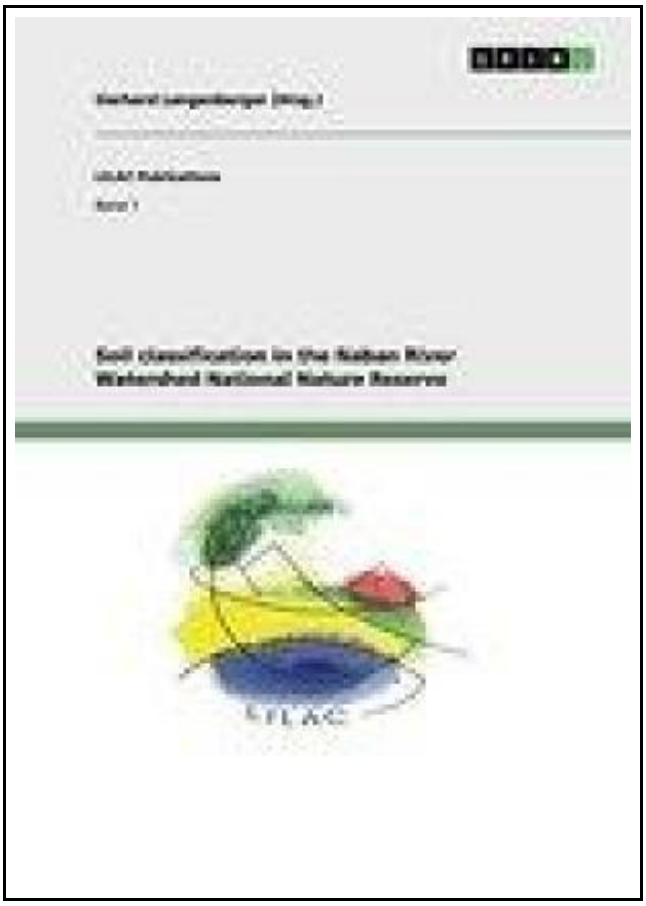
Soil classification in the Naban River Watershed National Nature Reserve



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An exceptional publication as well as the font employed was exciting to see. it was actually writtern extremely flawlessly and helpful. Once you begin to read the book, it is extremely difficult to leave it before concluding.

(Dominic Collins)

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Grin Verlag Sep 2010, 2010. Taschenbuch. Book Condition: Neu. 210x148x4 mm. This item is printed on demand - Print on Demand Titel. - Document from the year 2010 in the subject Geography / Earth Science - Geology, Mineralogy, Soil Science, grade: -, Dresden Technical University (Institute of Soil Science and Site Ecology), course: -, language: English, abstract: Soil properties are not only influenced by geographical factors, such as parent material, location and latitude. Often differences in land uses (forest, rubber plantation, paddy field, bare land) are known to have specific effects on soil properties. In the context of the project Living Landscapes China (LILAC) these effects were evaluated and the characteristics of soil types under changing conditions in two transects (altitude and parent material in transect 1, land uses in transect 2) in the Naban River Watershed National Nature Reserve were classified. We used field investigations to classify the soil types, as well as laboratory analyses to quantify specific characteristics in samples, taken from the profiles. Soil physical (bulk density, water content, texture) and chemical parameters (total contents of carbon, nitrogen and macro nutrients, ECEC) were investigated. While differences in altitude did not seem to have profound influences on the soils, effects of land uses were pronounced especially in the first 10 to 20 cm of soil profiles. Soils under forests contain between 1.3 % - 2 % SOC and 0.15 % - 0.17 % TN in the Ah horizon. With contents of 1.2 % SOC and 0.11 % TN (Ah horizon) the profile under agricultural use (paddy rice) clearly contains less SOC and TN than the forest profiles. Fertilization also seemed to have an influence resulting in higher contents of Ca (6 - 12 times) and Mg (up to 4 times) for the topsoil as well as a higher...

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