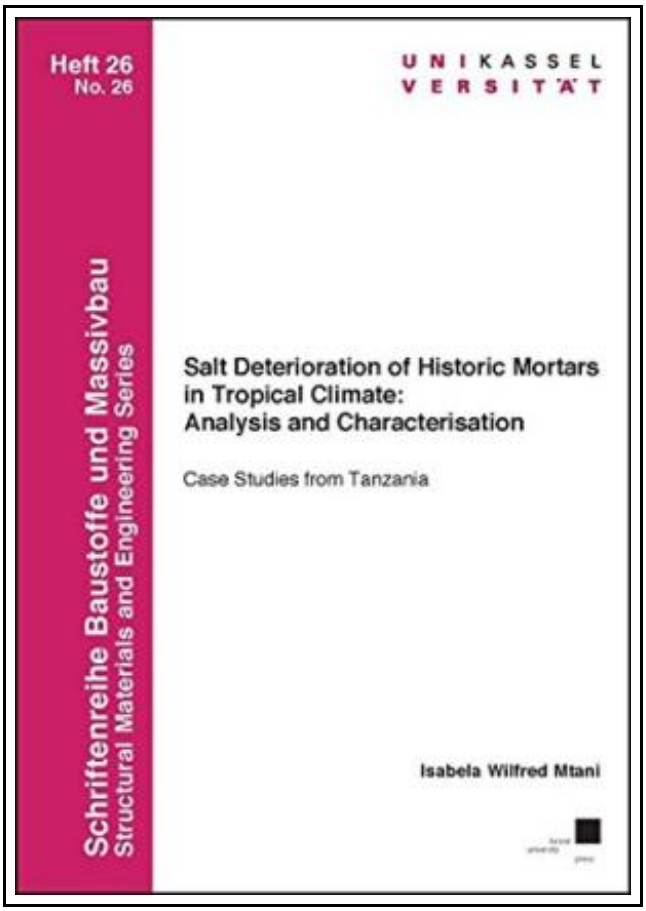
Salt Deterioration of Historic Mortars in Tropical Climate: Analysis and Characterisation



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SALT DETERIORATION OF HISTORIC MORTARS IN TROPICAL CLIMATE: ANALYSIS AND CHARACTERISATION

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Kassel University Press Jan 2016, 2016. Taschenbuch. Book Condition: Neu. 211x149x20 mm. Neuware - The contribution of this study to the general body of knowledge is in providing an understanding of the thermodynamic behaviour of soluble salt mixtures in historic buildings located in the tropical marine zone of Tanzania. This tropical zone is found in the eastern part of the country along the Indian Ocean coast. This research is geared towards informing the general public, most of whom believe that salt crystallisation is the main cause of historic buildings deteriorating. This belief emanates from the understanding that historic buildings in a marine environment are highly susceptible to salt crystallisation, more so because they tend to receive daily oceanic spray which contains salt. The problem is aggravated by the encroachment of the ocean on these buildings. Salt crystallisation on these structures is further complicated by air pollution owing to rapid urbanisation in these areas. It is worth noting that salt crystallisation is an extremely complex process and its effect depend on many variables including climate. Ten historic buildings involved in this study are located in three different areas of the country. Eight historic buildings are located in the tropical climate 1 - 200 m from the Indian Ocean, and two historic buildings are located in inland Tanzania 190 km and 589 km from the ocean. These two historic buildings experience a modified tropical climate and semi-arid climate. The criteria for selecting the buildings considered variations and the extent of salt deterioration in different parts of the country. The main goal of the study was to embark on a detailed analysis of the salt deterioration on Tanzanian historic buildings which has not hitherto been fully investigated and to provide a sustainable solution to the problem through climate control. This solution is needed,...

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