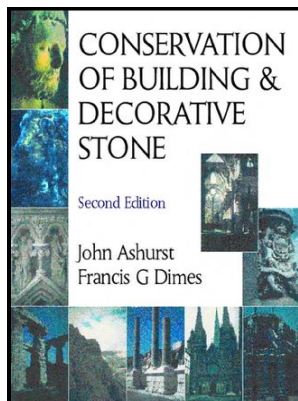


Modelling stone decay

Trinity College, Dublin - A commentary on climate change, stone decay dynamics and the 'greening' of natural stone buildings: new perspectives on 'deep wetting'



Description: -
- Sicily (Italy) -- Economic conditions.
Industries -- Italy -- Sicily
Stone buildings -- Deterioration.
Atmospheric chemistry.
Building stones -- Biodeterioration.
Air -- Pollution -- Environmental aspects. Modelling stone decay
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Tags: #The #Mechanism #of #Masonry #Decay #Through #Crystallization

Predicting decay dynamics of rock materials using geostatistics — Queen's University Belfast

The ecological validity of these experiments can be questioned, but their findings are supported by evidence from outside the laboratory. Data from controlled experiments in which salt decay is induced in laboratory specimens, together with measurements on examples of salt decay in buildings and monuments in a variety of environments, confirm the validity of these insights. They will be more likely to retrieve the information when they are in a similar state.

Forgetting

This can lead the structure to high states of damage even if not failure.

Mapping stone: using GIS spatial modelling to predict lithic source zones

Displacement theory provides a very simple explanation of forgetting. Previous learning can sometimes interfere with new learning e. Weathering simulations are used to investigate the effect of salt surface concentration, salt penetration and accumulation at depth to monitor and quantify relationships between variables and to ultimately predict and model the dynamics of rock decay.

Timelines of the

These considerations disclose the quantitative relationship between the porosity of the masonry and the dimensions of the flakes, blisters, or spalls that develop, as well as the manner in which the decay progresses. In: Seigesmund S, Weiss T, Volbrecht A eds Natural stone, weathering phenomenon, conservation strategies and case studies. A Bayesian Updating approach is used to reveal the contribution of primary in this case mineralogy and secondary information such as porosity, permeability and salt accumulation on the deterioration of the blocks at different stages in decay process.

Two different stochastic approaches modelling the decay process of masonry surfaces over time

Click here to buy this book in print or download it as a free PDF, if available. Retrieval Failure Theory Retrieval failure is where the information is in long term memory, but cannot be accessed. All participants were asked to recall the words on the first list.

Mapping stone: using GIS spatial modelling to predict lithic source zones

The interfacial tension, γ , at the free surface of the liquid provides the driving force that draws the liquid to the surface through the capillary network from the source.

A commentary on climate change, stone decay dynamics and the ‘greening’ of natural stone buildings: new perspectives on ‘deep wetting’

The parameters needed to describe the porous nature of the Mechanism of Masonry Decay Through Crystallization 143 solid are obtainable from water imbibition, capillary rise, and pore- size-distribution measurements. For example, when they hid money and alcohol when drunk, they were unlikely to find them when sober. Under these conditions the Washburn equation applies: $x \sim \sqrt{t}$, where x is the distance that the interfacial tension, γ , draws the liquid of viscosity, η , through a capillary of radius, r , in time, t .

A numerical modelling for the extraction of decay regions from color images of monuments

A typical study would use the following procedure: participants listen to a list of words read out at a steady rate, usually two seconds per word; they are then asked to recall as many of words as possible. Spatial prediction kriging will be used for 2-D mapping of the multiple variables from the salt weathering trials.

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