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Pore Structure Of Cement Based

Pore structure characteristics of cement-based materials (CBMs) importantly indicate their mechanical property and durability performance. Determining the

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pore structure of CBMs, however, still faces big challenges because (1) pore structure testing methods, more or less, have intrinsic shortages, and (2) the microstructure of cement hydrates is rather sensitive to environments [1].

Pore Structure Damages in Cement-Based Materials by ...

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Pore structure is a general term used to describe the porosity, pore size, pore size distribution, and pore morphology of a porous medium. As with other porous materials, porous titanium can have various pore structures.

**Pore Structure - an overview |
ScienceDirect Topics**

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Pore Structure of Cement-Based Materials provides a thorough treatment of the experimental techniques used to characterize the pore structure of materials. The text presents the principles and practical applications of the techniques used, organized in an easy-to-follow and uncomplicated manner, providing the theoretical

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background, the way to analyze
experimental data, and the factors
affecting the results.

Pore Structure of Cement-Based Materials: Testing ...

The gel pore has a size of approximately
several nanometers. The empty or
initially-water-filled space is called

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capillary pore. The capillary pore has a size ranging from several nanometers to several micrometers. Many properties of cement-based materials are directly or indirectly related to pore structure [2].

Characterization of pore structure in cement-based ...

Pore Structure and Moisture Properties

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of Cement-Based Systems from Water
Vapour Sorption Isotherms - Volume 370
- Veronique Baroghel-Bouny, T.

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Pore Structure and Moisture Properties of Cement-Based ...

Therefore, the pore volume of UHSC was measured by Nitrogen

Adsorption/Desorption (NAD) as a precise testing method [49, 82] to elaborate the mechanism of autogenous shrinkage. Previously, NAD was effectively used to investigate the pore

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structure of cement-based materials
with low w/c [47,48,87]. ...

Pore Structure of Cement-Based Materials: Testing ...

One example is introduction of a large number of air voids in the matrix and optimization of their pore structure. Cement-based materials generated in

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this fashion have relatively low density,
poor mechanical performance or poor
thermal insulation performance , , .
Thus, to boost the application of cement-
based thermal insulation materials ...

Pore structure and hardened properties of aerogel/cement ...

Pore structure and durability of cement-

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based composites doped with graphene
nanoplatelets Article in Materials
Express 8(2):149-156 · April 2018 with
15 Reads How we measure 'reads'

Pore structure and durability of cement-based composites ...

Pore segmentation of cement-based
materials from backscattered electron

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images. Abstract. A technique to segment pores from a normal backscattered electron (BSE) image of cement-based materials is presented. The upper threshold grey level for porosity is determined from the inflection point of the cumulative brightness histogram of the BSE image.

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Pore segmentation of cement-based materials from ...

Under long-term curing age up to 2 years, the pore structure of cement paste blended with fly ash is discussed. Linear relationships between total porosity and curing age are found. The linear relationships can be used to predict the total porosity in practice

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**The pore structure of cement paste
blended with fly ash ...**

Realistic pore structure of Portland
cement paste: experimental study and
numerical simulation angle between
mercury and hardened cement paste
was chosen as 130° , while the surface

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Realistic pore structure of Portland cement paste ...

The research results indicated that the small pores ($20\ \mu\text{m} \sim 60\ \mu\text{m}$) of aerated concrete block account for a large percentage compared with the large pores ($60\ \mu\text{m} \sim 400\ \mu\text{m}$ or more) from

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pore diameter distribution and the pore structure of aerated concrete block has obvious fractal features and the fractal dimension of aerated concrete block pore structure images were calculated to be in the range of 1.775–1.805.

Experimental Study on Pore Characteristics and Fractal ...

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Pore structure is one of the most important parameters, which determines the properties of cement-based materials. Pore structure is generally characterized by total porosity and pore size distribution (PSD). Previous researches have indicated that chloride ions, originating from deicing salts

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Experimental Investigation on Pore Structure ...

Pore Structure Damages in Cement-
Based Materials by Mercury Intrusion: A
Non-Destructive Assessment by X-Ray
Computed Tomography. Wang X(1),
Peng Y(1), Wang J(1), Zeng Q(2). Author
information: (1)College of Civil
Engineering and Architecture, Zhejiang

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University, Hangzhou 310058, China.

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Pore Structure Damages in Cement- Based Materials by ...

"Pore Structure of Cement-Based
Materials: Testing, Interpretation and
Requirements" provides a thorough
treatment of the experimental
techniques used to characterize the pore

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structure of materials.

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Pore structure of cement-based materials : testing ...

Pore Structure of Cement-Based
Materials provides a thorough treatment
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characterize the pore structure of
materials. The text presents the

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principles and practical applications of the techniques used, organized in an easy-to-follow and uncomplicated manner, providing the theoretical background, the way to analyze experimental data, and the factors affecting the results.

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TY - JOUR. T1 - Image analysis techniques for characterization of pore structure of cement-based materials. AU - Lange, David A. AU - Jennings, Hamlin M.

Image analysis techniques for characterization of pore ...

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Pore Structure of Cement-Based Materials provides a thorough treatment of the experimental techniques used to characterize the pore structure of materials. The text presents the principles and...

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To study the influence of the pore structure of cement-based materials on macroscopic features (gas permeability), mercury intrusion porosimetry (MIP) and nitrogen adsorption (NA) were applied to ...

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