

capillarity and wetting phenomena pdf

Capillary action (sometimes capillarity, capillary motion, capillary effect, or wicking) is the ability of a liquid to flow in narrow spaces without the assistance of, or even in opposition to, external forces like gravity. The effect can be seen in the drawing up of liquids between the hairs of a paint-brush, in a thin tube, in porous materials such as paper and plaster, in some non-porous ...

Capillary action - Wikipedia

Wetting is the ability of a liquid to maintain contact with a solid surface, resulting from intermolecular interactions when the two are brought together. The degree of wetting (wettability) is determined by a force balance between adhesive and cohesive forces. Wetting deals with the three phases of materials: gas, liquid, and solid.

Wetting - Wikipedia

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Benetzung ist ein Verhalten von Flüssigkeiten bei Kontakt mit der Oberfläche von Festkörpern. Benetzbarkeit ist die zugehörige Eigenschaft der Festkörperoberfläche. Je nachdem, um welche Flüssigkeit es sich handelt, aus welchem Material die Oberfläche besteht und wie deren Beschaffenheit ist, zum Beispiel in Bezug auf die Rauheit, benetzt die Flüssigkeit die Oberfläche mehr oder ...

Benetzung â€“ Wikipedia

Note: This is a draft chapter for a multi-author book on the conservation of paper. I welcome comments, corrections and suggestions for additional material.

Conservation physics: The interaction of water vapour with

Yield stress fluids are encountered in a wide range of applications: toothpastes, cements, mortars, foams, muds, mayonnaise, etc. The fundamental character of these fluids is that they are able to flow (i.e., deform indefinitely) only if they are submitted to a stress above some critical value.

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