COST D43 Training school "Fluids and Solid Interfaces", Sofia, Bulgaria, 12-15 April 2011

Questions for the Case Study Tutorial:

Wetting and super-hydrophobicity

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A rough surface of the shape shown in the figure is given.



- 1. Under what conditions is the Wenzel regime more stable than the CB regime?
- 2. Under what conditions can this surface become non-wettable (super-hydrophobic, namely heterogeneous wetting with CA>150°)?