

Accepted Manuscript

Title: A Computational Study of Wetting on Chemically Contaminated Substrates

Author: Tobias Luginsland Roger A. Sauer

PII: S0927-7757(17)30594-0

DOI: <http://dx.doi.org/doi:10.1016/j.colsurfa.2017.06.031>

Reference: COLSUA 21718

To appear in: *Colloids and Surfaces A: Physicochem. Eng. Aspects*

Received date: 5-3-2017

Revised date: 11-6-2017

Accepted date: 12-6-2017



Please cite this article as: Tobias Luginsland, Roger A. Sauer, A Computational Study of Wetting on Chemically Contaminated Substrates, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* (2017), <http://dx.doi.org/10.1016/j.colsurfa.2017.06.031>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

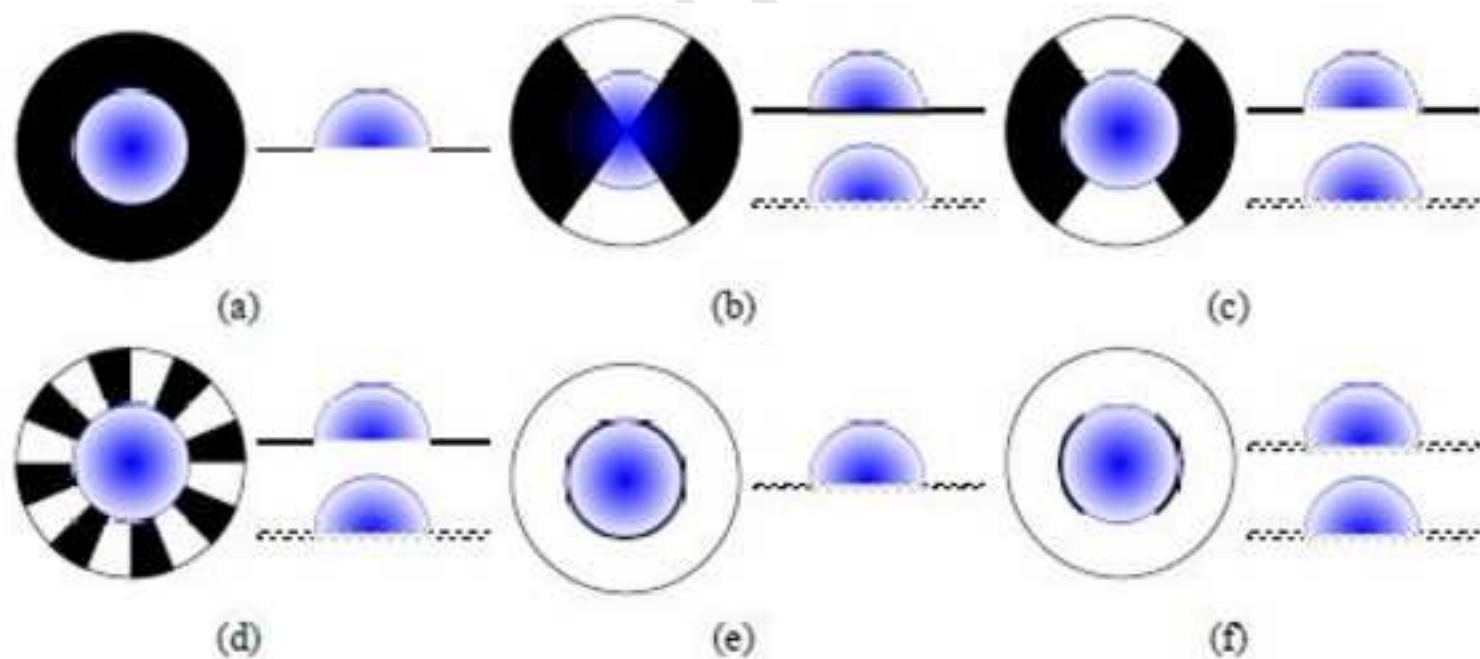


Figure 1: Schematic sketches of the partial wetting scenarios on chemically heterogeneous substrates considered in the present investigation. (a) Axially and (b) radially patterned substrates, (c) Axially-radially patterned substrate, (d) Dartboard patterned substrate. (e+f) Chemically locally perturbed substrates. In each subfigure the top view (left) and side view (right) is depicted with the droplet indicated in blue. The different wetting properties of the substrate are indicated in black and white.

Download English Version:

<https://daneshyari.com/en/article/4981718>

Download Persian Version:

<https://daneshyari.com/article/4981718>

[Daneshyari.com](https://daneshyari.com)