

Accepted Manuscript

Title: Experimental Characterization of Stable Liquid Rivulets on Inclined Surfaces: Influence of Surface Tension, Viscosity and Inclination Angle on the Interfacial Area

Author: Henning Bonart André Marek Jens-Uwe Repke

PII: S0263-8762(17)30389-1
DOI: <http://dx.doi.org/doi:10.1016/j.cherd.2017.07.022>
Reference: CHERD 2763

To appear in:

Received date: 12-12-2016
Revised date: 22-5-2017
Accepted date: 11-7-2017

Please cite this article as: Henning Bonart, André Marek, Jens-Uwe Repke, Experimental Characterization of Stable Liquid Rivulets on Inclined Surfaces: Influence of Surface Tension, Viscosity and Inclination Angle on the Interfacial Area, *Chemical Engineering Research and Design* (2017), <http://dx.doi.org/10.1016/j.cherd.2017.07.022>

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.



- The spatial resolved thicknesses and widths of liquid rivulets were measured.
- The light-induced fluorescence method was used for the measurements.
- A correlation for the interfacial area of liquid rivulets is proposed.
- The correlation is based on the Kapitza and Reynolds number.

Accepted Manuscript

Download English Version:

<https://daneshyari.com/en/article/4987074>

Download Persian Version:

<https://daneshyari.com/article/4987074>

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