Accepted Manuscript

The science of foaming

Wiebke Drenckhan, Arnaud Saint-Jalmes

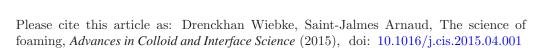
 PII:
 S0001-8686(15)00060-3

 DOI:
 doi: 10.1016/j.cis.2015.04.001

 Reference:
 CIS 1529

To appear in:

Advances in Colloid and Interface Science



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.



ACCEPTED MANUSCRIPT

The science of foaming

Wiebke Drenckhan¹ and Arnaud Saint-Jalmes²

1 Laboratoire de Physique des Solides, Université Paris-Sud – UMR 8502, Orsay, France 2 Institut de Physique de Rennes, CNRS UMR 6251- Université Rennes-1, Rennes, France

Abstract

The generation of liquid foams is at the heart of numerous natural, technical or scientific processes. Even though the subject of foam generation has a long-standing history, many recent progresses have been made in an attempt to elucidate the fundamental processes at play. We review the subject by providing an overview of the relevant key mechanisms of bubble generation within a coherent hydrodynamic context; and we discuss different foaming techniques which exploit these mechanisms.

S

1

Download English Version:

https://daneshyari.com/en/article/6976730

Download Persian Version:

https://daneshyari.com/article/6976730

Daneshyari.com