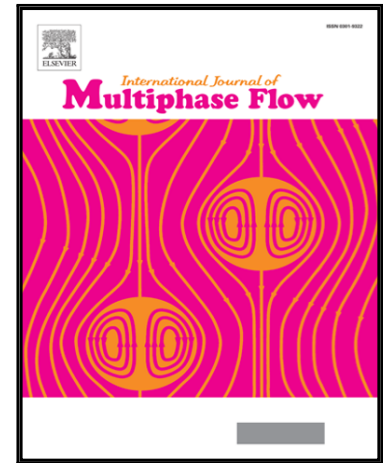


## Accepted Manuscript

Generation and evaluation of an artificial optical signal based on X-ray measurements for bubble characterization in fluidized beds with vertical internals

F. Schillinger , T.J. Schildhauer , S. Maurer , E. Wagner ,  
R.F. Mudde , J.R. van Ommen

PII: S0301-9322(17)30816-9  
DOI: [10.1016/j.ijmultiphaseflow.2018.03.002](https://doi.org/10.1016/j.ijmultiphaseflow.2018.03.002)  
Reference: IJMF 2757



To appear in: *International Journal of Multiphase Flow*

Received date: 22 October 2017  
Revised date: 25 February 2018  
Accepted date: 3 March 2018

Please cite this article as: F. Schillinger , T.J. Schildhauer , S. Maurer , E. Wagner , R.F. Mudde , J.R. van Ommen , Generation and evaluation of an artificial optical signal based on X-ray measurements for bubble characterization in fluidized beds with vertical internals, *International Journal of Multiphase Flow* (2018), doi: [10.1016/j.ijmultiphaseflow.2018.03.002](https://doi.org/10.1016/j.ijmultiphaseflow.2018.03.002)

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.

**Highlights:**

- **Bubbling fluidized bed: Evaluation of X-ray measurement data with virtual optical probe**
- **Differences in determined bubble properties between optical and X-ray evaluation method**
- **Rise velocity of large bubbles predominant for determination of mean velocity by optical evaluation**
- **Introduction of a correction factor between the pierced chord length and the volume equivalent bubble diameter based on a Monte Carlo simulation**

Download English Version:

<https://daneshyari.com/en/article/8941961>

Download Persian Version:

<https://daneshyari.com/article/8941961>

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