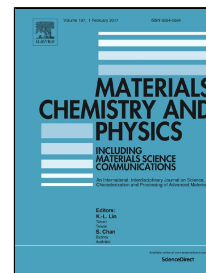


Accepted Manuscript

Effects of Surface Diffusion and Reaction-induced Volume Shrinkage on Morphological Evolutions of Micro Joints

H.W. Yang, J.Y. Wu, Z.X. Zhu, C.R. Kao



PII: S0254-0584(17)30048-2

DOI: 10.1016/j.matchemphys.2017.01.022

Reference: MAC 19429

To appear in: *Materials Chemistry and Physics*

Received Date: 25 October 2016

Revised Date: 05 January 2017

Accepted Date: 08 January 2017

Please cite this article as: H.W. Yang, J.Y. Wu, Z.X. Zhu, C.R. Kao, Effects of Surface Diffusion and Reaction-induced Volume Shrinkage on Morphological Evolutions of Micro Joints, *Materials Chemistry and Physics* (2017), doi: 10.1016/j.matchemphys.2017.01.022

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.

Highlights

- Solder surface diffusion was an important factor for surface morphology.
- Reaction-induced volume shrinkage was dissipated mainly by formation of voids.
- The void ratio in micro joints was estimated by sequential FIB cross-sectioning.

Download English Version:

<https://daneshyari.com/en/article/5447858>

Download Persian Version:

<https://daneshyari.com/article/5447858>

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