

Accepted Manuscript

Creep-fatigue strength design of plate-fin heat exchanger by a homogeneous method

Lei Ge , Wenchun Jiang , Yong Wang , Shan-Tung Tu

PII: S0020-7403(18)31356-0
DOI: [10.1016/j.ijmecsci.2018.07.021](https://doi.org/10.1016/j.ijmecsci.2018.07.021)
Reference: MS 4433



To appear in: *International Journal of Mechanical Sciences*

Received date: 27 April 2018
Revised date: 6 July 2018
Accepted date: 17 July 2018

Please cite this article as: Lei Ge , Wenchun Jiang , Yong Wang , Shan-Tung Tu , Creep-fatigue strength design of plate-fin heat exchanger by a homogeneous method, *International Journal of Mechanical Sciences* (2018), doi: [10.1016/j.ijmecsci.2018.07.021](https://doi.org/10.1016/j.ijmecsci.2018.07.021)

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

- The equivalent thermophysical properties are calculated analytically.
- The equivalent properties are applied to creep-fatigue design.
- The equivalent method is verified by finite element analysis.
- Equivalent thermophysical properties are dependent on geometrical parameters.
- The result of creep-fatigue design satisfies the design criteria.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/7173550>

Download Persian Version:

<https://daneshyari.com/article/7173550>

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