#### Accepted Manuscript

Model for predicting fatigue life and limit of steels based on micromechanics of small crack growth

Kazuki Shibanuma, Koya Ueda, Hiroaki Ito, Yoshiki Nemoto, Masao Kinefuchi, Katsuyuki Suzuki, Manabu Enoki

PII: S0264-1275(17)31012-2

DOI: doi:10.1016/j.matdes.2017.10.069

Reference: JMADE 3467

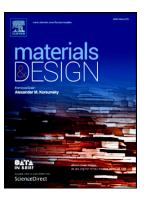
To appear in: Materials & Design

Received date: 18 July 2017

Revised date: 20 September 2017 Accepted date: 27 October 2017

Please cite this article as: Kazuki Shibanuma, Koya Ueda, Hiroaki Ito, Yoshiki Nemoto, Masao Kinefuchi, Katsuyuki Suzuki, Manabu Enoki , Model for predicting fatigue life and limit of steels based on micromechanics of small crack growth. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Jmade(2017), doi:10.1016/j.matdes.2017.10.069

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**

# Model for predicting fatigue life and limit of steels based on micromechanics of small crack growth

Kazuki Shibanuma<sup>\*1</sup>, Koya Ueda<sup>2</sup>, Hiroaki Ito<sup>3</sup>, Yoshiki Nemoto<sup>4</sup>, Masao Kinefuchi<sup>5</sup>, Katsuyuki Suzuki<sup>6</sup>, Manabu Enoki<sup>7</sup>

- \* Corresponding author
- \*1, 2, 3, 4 Department of Systems Innovation, The University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo 113-8656, Japan
- <sup>5</sup> Materials Research Laboratory, Kobe Steel, Ltd., 1-5-5 Takatsukadai, Nishiku, Kobe, Hyogo 651-2271, Japan
- <sup>6</sup> Research into Artifacts, Center for Engineering, The University of Tokyo, 5-1-5 Kashiwanoha, Kashiwa, Chiba 277-8563, Japan
- Department of Materials Engineering, The University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo, 113-8656 Japan

#### **Email addresses:**

<sup>\*1</sup> shibanuma@struct.t.u-tokyo.ac.jp

<sup>&</sup>lt;sup>2</sup> ueda@struct.t.u-tokyo.ac.jp

<sup>&</sup>lt;sup>3</sup> ito@struct.t.u-tokyo.ac.jp

<sup>&</sup>lt;sup>4</sup> nemoto@struct.t.u-tokyo.ac.jp

<sup>&</sup>lt;sup>5</sup> kinefuchi.masao@kobelco.com

<sup>&</sup>lt;sup>6</sup>katsu@race.u-tokyo.ac.jp

<sup>&</sup>lt;sup>7</sup> enoki@rme.mm.t.u-tokyo.ac.jp

#### Download English Version:

## https://daneshyari.com/en/article/7217567

Download Persian Version:

https://daneshyari.com/article/7217567

<u>Daneshyari.com</u>