

Accepted Manuscript

A Review on the Fatigue Behavior of Ti-6Al-4V Fabricated by Electron Beam Melting Additive Manufacturing

Andrew H. Chern, Peeyush Nandwana, Tao Yuan, Michael M. Kirka, Ryan R. Dehoff, Peter K. Liaw, Chad E. Duty

PII: S0142-1123(18)30572-3

DOI: <https://doi.org/10.1016/j.ijfatigue.2018.09.022>

Reference: JIJF 4857

To appear in: *International Journal of Fatigue*

Received Date: 22 May 2018

Revised Date: 31 August 2018

Accepted Date: 22 September 2018



Please cite this article as: Chern, A.H., Nandwana, P., Yuan, T., Kirka, M.M., Dehoff, R.R., Liaw, P.K., Duty, C.E., A Review on the Fatigue Behavior of Ti-6Al-4V Fabricated by Electron Beam Melting Additive Manufacturing, *International Journal of Fatigue* (2018), doi: <https://doi.org/10.1016/j.ijfatigue.2018.09.022>

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.

A Review on the Fatigue Behavior of Ti-6Al-4V Fabricated by Electron Beam Melting Additive Manufacturing

Andrew H. Chern^{a*}
Peeyush Nandwana^b
Tao Yuan^c
Michael M. Kirka^d
Ryan R. Dehoff^e
Peter K. Liaw^f
Chad E. Duty^g

- ^a Department of Mechanical, Aerospace, and Biomedical Engineering, The University of Tennessee, Knoxville. Knoxville, TN. 37996, achern@vols.utk.edu, 414-412-4887
- ^b Deposition Science and Technology Division, Oak Ridge National Laboratory. 1 Bethel Valley Road, Oak Ridge, TN. 37830, nandwanap@ornl.gov
- ^c Department of Industrial and Systems Engineering, Ohio University. 1 Ohio University, Athens OH. 45701, yuan@ohio.edu
- ^d Deposition Science and Technology Division, Oak Ridge National Laboratory. 1 Bethel Valley Road, Oak Ridge, TN. 37830, kirkamm@ornl.gov
- ^e Deposition Science and Technology Division, Oak Ridge National Laboratory. 1 Bethel Valley Road, Oak Ridge, TN. 37830, dehoffrr@ornl.gov
- ^f Department of Materials Science and Engineering, The University of Tennessee, Knoxville. Knoxville, TN. 37996, pliaw@utk.edu
- ^g Department of Mechanical, Aerospace, and Biomedical Engineering, The University of Tennessee, Knoxville. Knoxville, TN. 37996, cduty@utk.edu

*Corresponding author

Abstract

This manuscript has been authored by UT-Battelle, LLC, under Contract No. DE-AC05-00OR22725 with the U.S. Department of Energy. The United States Government retains and the publisher, by accepting the article for publication, acknowledges that the United States Government retains a non-exclusive, paid-up, irrevocable, world-wide license to publish or reproduce the published form of this manuscript, or allow others to do so, for United States Government purposes.

Download English Version:

<https://daneshyari.com/en/article/11263145>

Download Persian Version:

<https://daneshyari.com/article/11263145>

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