2nd International Conference on Advances in Robotic, Mechanical Engineering and Design

(ARMED 2012)

Dubai, United Arab Emirates 20 – 21 September 2012

Editors:

J. Stephen

ISBN: 978-1-62993-416-7

Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2012) by The Institute of Doctors Engineers and Scientists (IDES) All rights reserved.

Printed by Curran Associates, Inc. (2014)

For permission requests, please contact IDES-CPS at the address below.

IDES-CPS Prins Hendriklaan 19 1075 AZ Amsterdam, Netherlands

Phone: +31-6855 84465

cps.info@theides.org

Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA

Phone: 845-758-0400 Fax: 845-758-2634

Email: curran@proceedings.com Web: www.proceedings.com

Table of Contents

1. Nonlinear Finite Element Modeling of ProstheticLower Limbs Fadi A Ghaith and Fahad A Khan	1-4
2. Dynamic Stability of a System Including Three Shafts SoltanRezaee M, Jafari A A and Ghazavi M R	5-10
3. Lateral Stability Analysis of High-Speed RailwayVehicle on Curve Ranjbar M and Ghazavi M R	11-14
4. Diagnosis of Antifriction Bearing Defects by VibrationMonitoring and Frequency Analysis – Some CaseStudies Chavan S. P. Ramname S. R. NaikB. N and Chavan S. S.	15-19