

**Firas Akasheh, Ph.D.,**  
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Publications and Presentations 2008-2017

**Book Chapter**

1. F. Akasheh, “Dislocation Dynamics”, Chapter Four in

5. Firas Akasheh, Kenneth D. Dawson, and Jonathan Rocha, "Comprehensive approach to teaching dynamics of planar mechanisms based on modern learning theories", Proceedings of the 120<sup>th</sup> Annual Conference and Exposition, Atlanta, GA, June 23-26, 2013, Paper ID# 7321.
6. Z. Siddique, F. Akasheh, and G. E Kremer, "Enhancing Peer-Learning Using Smart Devices", Proceedings of the 120<sup>th</sup> ASEE Annual Conference and Exposition, 2013, Paper ID 6142.
7. F. Akasheh, R. Echempati, and A. L. Sala, "Assessment of student learning through homework intervention method", 2012 ASEE Annual Conference and Exposition, AC 2012-3610.
8. Siddique, Z., Saha, M. C., Akasheh, F., Arif, S., and Barua, B., "Scenario-based learning environment to support peer-learning", Proceedings of the ASME 2012 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference, DETC2012-70698.
9. Brown, A. O., Jensen, D. D., Rencis, J. J., Wood, K. L., Watson, K. A., Chen, C., Labay, V. A., Orabi, I. I., Akasheh, F. E., Wood, J. J., Hackett, R. K., Jackson, K. S., Liu, J., Schimpf, P. H., Pham, A., Zimowski, K., Taylor, K., "Improving student learning using finite element learning modules, an update in research findings", 2012 ASEE Annual Conference and Exposition, AC 2012-3981
10. Z. Siddique, G. E. Kremer, and F. Akasheh, "Peer Learning Using Smart Devices: A Report on Work-in-Progress", Proceedings of the ASME 2012 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference, DETC2013-12383.
11. F. Akasheh and D. Davis, "Undergraduate homework assignments that achieve desired learning outcomes", 2011 ASEE Annual Conference and Exposition, AC 2011-565.
12. M. Saha, Z. Siddique, F. Akasheh, B. Barus, C. Heisser, and S. Arif, "Interactive Scenario Based Teaching of Metal Casting Process", 2011 ASEE Annual Conference and Exposition, AC 2011-937
13. Siddique, Z., Saha, M. C., Barua, B., and Akasheh, F., 2010, "Learning Casting Through Interactively Creating a Scenario", Proceedings of the ASME 2010 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference, DETC2010-28593.
14. Saha, M. C., Siddique, Z., Barua, B., and Akasheh, F., 2010, "Create your Scenario Interactively (CSI) – A Teaching Module for Manufacturing Processes", 2010 ASEE Annual Conference & Exposition, AC 2010-638.

15. F. Akasheh, HM Zbib, S. Akarapu, C. Overman, and D. Bahr, “Multiscale modeling of dislocation mechanisms in nanoscale multilayered composites”,

