List of Publications

Research Paper Published in International Journal (SCI)

1. **Awani Bhushan**, S.K. Panda, Semianalytic Weibull Model to Assess the Influence of Strength Controlling Flaws for Bimodular C-Ring Specimen, (In press, online available), ASTM, Journal of Testing and Evaluation, 2019;48:.
2. **Awani Bhushan**, S.K. Panda P.K. Singh, P. Kartheek, R. Kumar, Y. Mittal, "3D Path independent integral for thermoelastic and magnetostriction problem" Mechanics Research Communication 2018: 92: 15–20
3. **Awani Bhushan**, S.K. Panda, "Experimental and Computational Correlation of Fracture Parameters KIc, JIc, and GIc for Unimodular and Bimodular Graphite Components." Journal of Nuclear Materials. 2018;503:205-225.(Also selected in **The SAO/NASA Astrophysics Data System (ADS), http://adsabs.harvard.edu/abs/2018JNuM..503..205B)**
4. **Awani Bhushan**, S.K. Panda, Debashis Khan, K. Chattopadhyay, A. Ojha, A. Khan and H.S. Kushwaha, "Weibull Effective Volumes, Surfaces and Strength Scaling for Cylindrical Flexure Specimens having Bi-modularity. **ASTM** : Journal of Testing and Evaluation, 2016;44(5):1978-1997.

Book Chapter

1. **Awani Bhushan**, S.K. Panda, Size effect in bimodular flexural cylindrical specimens, Reliability, Safety and Hazard Assessment for Risk-Based Technologies, Lecture Notes in Mechanical Engineering (LNME), ISSN 2195-4356, Springer's Book.

Manuscript under review

1. **Awani Bhushan**, S.K. Panda, Modified Weibull Analysis for Bimodular Strength Scaling and Prediction of Nuclear Graphite Components, Manuscript ID GTP-18-1533, ASME, Journal of Engineering for Gas Turbines and Power 2018.
2. **Awani Bhushan**, S.K. Panda, A New 3D Conservation Integral for circular arc crack considering Thermoelasticity and Magnetostriction Mechanics Research Communication, (Revision sent) 2018

Conference proceedings

1. **Awani Bhushan**, S.K. Panda, Fracture Toughness Evaluation for magnetostrictive problem using COMSOL-Multiphysics, Proceedings of COMSOL conference, Bangalore, August 9-10, 2018.
2. **Awani Bhushan,** S.K. Panda, R. Kumar, Study of Fracture Parameter for Curved Cracked Bimodular Flexural Specimen under Application of Thermal Loading. . Proceedings of 6th International conference on Product Life Cycle Modelling, Simulation and Synthesis (PLMSS – 2017) 13-15 December 2017 (Pre-conference Workshop – 11th, 12th December 2017)
3. **Awani Bhushan,** S.K. Panda. Study of fracture parameter using COMSOL Multiphysics for curved cracked bimodular flexural specimen. Proceedings of COMSOL conference, Bangalore October 20-21, 2016.