

Dr. V. Murari

CONTACT INFORMATION	Assistant Professor, Department of Applied Mechanics, Motilal Nehru National Institute of Technology Allahabad, Allahabad, UttarPradesh, India - 211004 Email: vmurari@gmail.com, vmurari@mnnit.ac.in
RESEARCH INTERESTS	Solid mechanics, Composite materials, Continuum damage modeling, Computations and Experiments in structures
EDUCATION	Indian Institute of Technology Kanpur, Kanpur, India Ph.D., Aerospace Engineering, June 2011 <ul style="list-style-type: none">• Cumulative Performance Index (CPI) : 9.25 /10• Thesis Topic: <i>Micromechanics based continuum damage model for ply failure in unidirectional composites</i>• Advisor: Dr. C. S. Upadhyay Madras Institute of Technology, Anna University, Chennai, India M.E., Aeronautical Engineering, June 2004 <ul style="list-style-type: none">• Cumulative Grade Point Average (CGPA) : 8.3 /10 (First Class with Distinction)• Thesis Topic: <i>Design and development of a loom for 3-D spacer fabric</i>• Advisor: Dr. V. Baskar K.S.R. College of Technology (Tiruchengode), Madras University, Chennai, India B.E., Mechanical Engineering, June 2001 <ul style="list-style-type: none">• Percentage : 75.70 (First Class with Distinction)
PEER REVIEWED JOURNAL PUBLICATIONS	V. Murari, and C. S. Upadhyay, "Towards a generalized macro-level damage model for unidirectional composites," <i>Advanced Materials Research</i> , Vols. 47-50, 2008, pp. 869-872. V. Murari, and C. S. Upadhyay, "Micromechanics based ply level material degradation model for unidirectional composites," <i>Composite Structures</i> , Vol. 94, 2012, pp.671-680. V. Murari, and C. S. Upadhyay, "Micromechanics based diffuse damage model for unidirectional composites," <i>Composite Structures</i> , Vol. 96, 2013, pp.419-432.
CONFERENCE PUBLICATIONS	V. Murari, and C. S. Upadhyay. "On the variation in length scale of nonlocal influence with damage evolution." <i>Indian Conference on Applied Mechanics</i> , IIT Madras, Chennai, India, July 4-6, 2013. C. S. Upadhyay, V. Murari, and R. Dhama. "Micro-mechanics based modeling of diffused damage evolution in unidirectional composites." <i>International Conference on mechanics of nano, micro and macro composite structures</i> , Politecnico di Torino, Italy, June 18-20, 2012. V. Murari, and C. S. Upadhyay. "Finite element based micromechanical analysis for influence of damage." <i>National Seminar on Aerospace Structures (NASAS 2011)</i> , IIT Kanpur, India, September 22-24, 2011.

- V. Murari, and C. S. Upadhyay. "Micromechanics based damage modeling for unidirectional composites: some recent developments." *International Conference on Composites for 21st century: Current and Future Trends (ICC-CFT 2011) (combined with ISAMPE National Conference on Composites, INCCOM-9)*, IISc Bangalore, India, January 4-7, 2011. (Invited Paper)
- C. S. Upadhyay, and V. Murari. "Towards a micromechanics based damage model for unidirectional composites." *37th Solid Mechanics Conference (SOLMECH 2010)*, Warsaw, Poland, September 6-10, 2010.
- V. Murari, and C. S. Upadhyay. "Towards a generalized macro-level damage Model for unidirectional composites." *International Conference on Multi-functional Materials and Structures (MFMS)*, Hong Kong, China, July 28-31, 2008.
- V. Murari, S. Prabu, C. S. Upadhyay. "Three dimensional homogenization based study of effect of damage in unidirectional composites." *4th International Conference on Theoretical, Applied, Computational and Experimental Mechanics (ICTACEM)*, IIT Kharagpur, India, December 27-29, 2007. (Invited Paper)