Professor Stevan Maksimovic,

Scientific Research

Main areas of interest of Professor Maksimovic are research and study to the: Computation methods (Structural Analysis and Optimization- Minimum Weight Design) of isotropic and layered fibrous composite structures with experimental verifications. His research contributions include; development of improved layered shell finite elements based on third order shear deformation theory, development of computation methods and software in domains fatigue and fracture mechanics of structural elements with surface cracks, fatigue life estimations up to crack initiation and crack growth analysis of damaged structural elements, damage tolerance design of aircraft structures. Professor Maksimovic and his research team at Military Technical Institute (MTI)-Aeronautical Department developed the complete computation methodology, procedures and software to analyze residual life of damaged aircraft structural elements with general shape of surface cracks under general load spectra. He participated as researcher or aircraft department head in the stress analysis and testing with respects to static/fatigue strength of all aircraft structures that are designed and experimental verified at MTI during period 1973-2011.

Scientific Publications

He has published more than 200 scientific papers in national and international conferences and more than 30 papers in international journals, supervisor of many Ph D and M.Sc thesis, editor of many proceedings of national and international conferences.Dr. Maksimovic, published two monographs, one from the area of reliability, and one from the area of Optimization of composite structures.

He has organized 12 national and international conferences and Minisymposia. Dr. Maksimovic together with Prof D. Mijuca – Matematical Faculty, Belgrade, organized int. conference "The First International Conference on COMPUTATION MECHANICS" – Belgrade, November 14-17, 2004. He also organized Mini-symposium in Venice, November 20-22, 2006, entitled "Finite Element Simulation of the Risk Constructions, Experiences and Problems" within "2nd WSEAS Int. Conf. APPLIED and THEORETICAL MECHANICS". within "Conference of Theoretical and Applied Mechanics" organized by Serbian Society of Mechanics, April 10-13,2007, he organized mini-symposium called "Computational Methods in Structural Analysis and Optimization by FEM" etc. Several times he had lectures by invitation in international meetings and meetings of national significance.

Scientific and Professional Membership

Corresponding Member of Academy of Engineering Sciences of Serbia (AESS) from 2007, President of Serbian Society of Mechanics, Editor-in Chief Journal Scientific

Technical Review. He is a member of: Scientific Council of the MTI, WSEAS, ESIS, IUTAM, DIVK (Structural Integrity and Life) and many others.