Professor Erian A. Armanios


See:
https://www.uta.edu/academics/schools-colleges/engineering/research/faculty/armanios
https://www.researchgate.net/profile/Erian_Armanios

Dept. of Mechanical and Aerospace Engineering, University of Texas at Arlington

Biography:
Professor Armanios works in the areas of structural analysis, design and damage tolerance of advanced composites. Has broad experience in analysis methodology ranging from classical methods to finite element, advanced optimization techniques and nondeterministic models. Current research interests are modeling, stress analysis, testing and failure processes of elastically tailored composites, energy dissipation concepts for composites, use of active materials for flow control and nondeterministic predictive models for aerospace structures diagnostics and failure. Developed and managed collaborative research and educational programs among a consortium of universities, aerospace industry, federal, state and local government to promote, recruit and graduate professionals in science, mathematics and engineering.

Research Interests:
Design and damage tolerance of advanced composites; Modeling, stress analysis, testing and failure processes of elastically tailored composites; Energy dissipation concepts for composites; Use of active materials for flow control; Nondeterministic predictive models for aerospace structures diagnostics and failure

Selected Publications:


