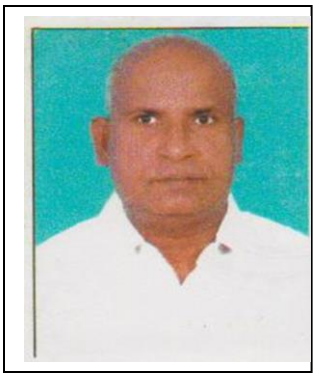
Dr.K. RAMAJEYATHILAGAM



Department: **Aeronautical**

Designation: Sr Professor

Qualification: **Ph. D**

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Email: **krama@hindustanuniv.ac.in,**

Research Interests: **Structural mechanics, FEM, impact, blast**

PUBLICATIONS:

1. Anand Venkatachari, S. Natarajan, **K. Ramajeyathilagam** and M. Ganapathi, “Assessment of certain higher-order structural models based on global approach for bending analysis of curvilinear composite laminates” Journal of Composite Structures, 118, 2014, 548-559.
2. A Shankar, S. Natarajan, M. Haboussi, **K. Ramajeyathilagam**, and M. Ganapathi, “Panel flutter characteristics of sandwich plates with CNT reinforced face sheets using an accurate higher-order theory” Journal of fluids and Structures, 50, 2014, 376-391.
3. A Shankar, S El-Borgi,, M. Ganapathi **and K. Ramajeyathilagam**, , “Parametric instability of thick doubly curved CNT reinforced composite sandwich panels under in-plane periodic loads using higher order shear deformation theory” Journal of vibration and control, 2016, 1-24.
4. SSS Sastry, VS Nagaraju Reddy and **K. Ramjeyathilagam**, “Experimental and numerical studies of laminated butt joint specimens with Aluminum butt straps under preload” Scientific Journal of pure and applied sciences, 6(9), 2017, 635-650
5. A Shankar, S EI-Borgi, M. Ganapathi, and **K. Ramajeyathilagam**, “Parametric instability of thick doubly curved CNT reinforced composite sandwich panels under in-plane periodic loads using higher-order shear deformation theory”, Journal of vibration and control, Vol. 24 (10), PP. 1927-1950, 2018
6. Anand Venkatachari and K. Ramajeyathilagam “Free vibration characteristics of thick doubly curved variable stiffness composite laminated shells using higher-order shear deformation theory”, MATEC Web of Conferences 172, 03010 (2018) https://doi.org/10.1051/matecconf/201817203010 ICDAMS 2018

Ph D GUIDED:

1. Dynamic analysis of CNT reinforced composites sandwich plates and shells using finite element approach, 2018 – Mr. A. Shankar
2. Statics and dynamics of variable stiffness composite laminated plates and shells using higher order shear deformation theory, 2018 – Mr. Anand Venkatachari

FUNDED PROJECTS:

S.No	Title of the Project	Agency	Amount (Rs. In Lakhs	Status
1	Evaluation of numerical bird model parameters through dynamic test of bird projectile	GTRE, DRDO	9.67	Completed
2	Simulation of Traumatic brain injury using finite element method	HITS	5.8	Completed
3	Coupled fluid – structure interaction studies due to underwater explosion around submerged composite pressure hull	NRB, DRDO	39.6	Ongoing
4	Estimation of shock levels and its impact on the underwater axisymmteric bodies due to water entry and pyro shock	NSTL, DRDO	6.65	Ongoing

CONFERENCE / WORKSHOP ATTENDED AS GUEST SPEAKER:

S.No	Name of the invited talk/ conference	Organizer	Date & year
1	"Simulation of high velocity impact and shock - case studies" in the NAFEMS Regional Conference	NAFEMS, Bangalore	20-21, July 2018
2	"Simulation of high velocity impact and shock - case studies" in the workshop on Applied Impact Mechanics	RCI, Hyderabad	15-16, Feb 2018
3	“Shock analysis of naval equipment using DDAM and Transient shock analysis” in the workshop Storage and handling of S/V mounts and training program on naval shock standard	M/s Resistoflex & M/s GVK CAMS Pvt Ltd	2-4, Nov 2017
4	FDP on Finite element method	Jeppiar Engg college	26-29, Nov 2016
5	Reviewer for papers presented in NAFEMS Regional conference 2018 held at Bangalore for Springer verlag publication	NAFEMS	July 2018
6	Reviewer for papers presented in NAFEMS world Congress held at Sweden	NAFEMS	Aug 2017
7	Editorial board member in the NAFEMS journal " International Journal Of Engineering Analysis, Simulation and Additive Manufacturing"	NAFEMS	Regular