

# In Memory of Dr. Kajal K. Gupta, 56CE



Dr. Kajal K. Gupta and I have known each other since 1999 through a NASA FAR (Faculty Research Program) grant. Of all his remarkable qualities that will remain till I part this world are his friendliness and undiminished hospitality. He just made sure I and my family felt comfortable and welcomed us to his resident on a number of occasions. I will never, ever forget that.

In the science frontier, we developed Sensitivity Analysis using a continuous design method, namely, Variational Methods and this concept was successfully incorporated in Dr. Gupta's well known STARS code. Our joint collaboration resulted in joint conference and journal publications.

Dr. Gupta has been a prolific scientist and engineer. He was adept in numerical analysis of structural and fluid Mechanical problems. His contribution in Engineering was so a high caliber that he was awarded a Doctor of Science (DSS) from the Royal Society of London. Dr. Gupta has published numerous scientific

journals and a textbook on Finite element analysis. His textbook on Finite element Multidisciplinary Analysis was published by AIAA Education Series. I can't list his life-long accomplishments and his over 100 publications, but some of the most pertinent pieces of his works as follows:

1. Finite Element Multidisciplinary Analysis (AIAA Education Series)
2. Solution manual for the example problems in the above mentioned textbook.
3. STARS: A complete, stand-alone computer FORTRAN code that solves problems in Structural and Fluid Mechanics, heat transfer, control, propulsion and Design Optimization
4. Development of a discrete-time Aerodynamic model for CFD-based Aero-elastic Analysis
5. Computational Fluid Dynamic-Based Aero-servo-elastic Analysis with Hyper-X Application  
Etc.

A human being is not just judged solely by his or her accomplishments but by their intentions. Dr. Gupta is one of these. May his soul rest forever peace.

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