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Research Area:

Aerospace Structures

Memberships:

Senior Member of Japan Society of Aeronautical and Space Sciences

Editorial Board of International Journal of Structural Stability and Dynamics

International Advisory Board of International Journal of Aeronautical and Space Sciences

Selected Publications:

1. Buckling , Vibration and Flutter behaviour of Laminated Composite Panel by Datta, P. K., Biswas,S and Kong, C.D J. of Engineering Mechanics, ASCE, 347 - 357 (2012)
2. Parametric Resonance Characteristics of Laminated Composite Curved Shell by Datta, P.K., Sahu,S.K. Intl. J. of Aeronautical and Space Sciences, 13(3), 332-348 (2012)
3. Dynamic behaviour of Stepped Multilayered Viscoelastic Beams by Datta,P. K., Roy,H. and Dutt,J.K Advances in Vibration Engineering, 12(1), 75-88 (2013)
4. Effect of Configuration..... Vibration and Dynamic Instability by Datta, P.K, Srivastava and Sheikh Advances in Vibration Engineering, 5,3, 207-220 (2006)
5. Dynamic Instability.....Controlled Follower Force by DATTA, P.K., Pradhan Intl. J. of Aircraft Engineering and Aerospace Technology, 78 (6), 509-514 (2006)

6. Parametric Combination with damping by Datta, P.K., Ratnakar Int. J. of Mechanical Sciences, 49, 317-334 (2007)
7. Dynamic Combination Resonance.....with damping by Datta,P.K., Ratnakar Int. J. Structural Engineering and Mechanics, 25, 4, 481-500 (2007)
8. Research Advances.....Conservative Systems by Datta, P.K., Sahu Applied Mechanics Reviews, ASME, 60, 65-75 (2007)
9. Dynamic Analysis..... with damping by Datta, P.K., Ratnakar Composit Structures, 79, 356-368 (2007)
10. Dynamics of Viscoelastic.....thermodynamic fields by Datta, P. K., Dutt and Roy Int. J. of Mechanicalm Sciences, 50, 845-853 (2008)
11. Combination Resonance.....with damping by Datta, P. K., Ratnakar Journal of Engineering Mechanics, ASCE, 134 , 7, 555-566 (2008)
12. Dynamic Instability ----- Partial Edge Loading by Datta, P. K., Srivastava, A.K.L. Int. J. of Crashworthiness, 10,4, pp.403-417 (2005)
13. Parametric Combination ----- Harmonic Edge Loading by Datta, P.K., Ratnakar,S. Int.J. Of Struc. Stab and Dynamics, 5,4, PP. 615-639 (2005)
14. Dynamic instability-----harmonic edge loading by Datta, P. K., Patel,S.N., Int.J. of Struc. Engg. and Mechanics, 22,4, pp. 483-510 (2006)
15. Combination Resonance----- Harmonic edge loading by Datta, P. K., Ratnakar,S, Int. J. Of Aircraft Engg. and Aerospace Tech., 78,2, pp. 107-119 (2006)
16. Effect of -----Inplane Edge loading by Datta,P.K., Ravikumar,L. J. Inst. of Engg., 87,pp 12-16 (2006)
17. Dynamic instability behaviour of isotropic plate with cut outs by P.K. Datta and S.K. Sahoo Journal of Sound & Vibration, 251,4 PP 683 - 696. (2002)
18. Transverse vibration of stiffened plate subjected to non-uniform inplane loading by P.K. Datta, A.K.L. Srivastava and H. Sheikh Journal of Aerospace Engineering, Inst of Engineers, 83 PP 125 (2002)
19. Vibration and dynamic instability of stiffened plates subjected to in-plane harmonic edge loading by A.K.L. Srivastata, P.K. Datta and H. Sheikh International Journal of Structural Stability & Dynamics, 2, 2 PP 185 - 206 (2002)
20. Non-destructive structural damage detection in telescopic cylindrical columns by Datta, P.K. Shekhar, A. and Sugiyama, Y. Journal of Structural Engineering, 28 PP 177-182 (2002)
21. Vibration of doubly curved panels with cutouts by Datta, P.K. and Sahu, S.K. Journal of the Institution of Engineers (Aerospace Engg. Div.), 83 PP 25 - 28 (2002)
22. Tension buckling and vibration behaviour of curved panels subjected to non-uniform in-plane edge loading by Datta, P.K and Prabhakar, D.L Ravikumar, L Int. J. of Structural Stability and Dynamics, 2 PP 409-423 (2002)
23. Parametric instability of stiffened plates subjected to uniform edge loading by Datta, P.K Srivastava, A.K.L. and Sheikh, A.H. Journal of the Institution of Engineers (Aerospace Engg. Div.), 83 PP 25-28 (2002)
24. Tension buckling and dynamic stability behaviour of laminated composite doubly curved panels subjected to partial edge loading by Datta, P.K Ravikumar, L. and Prabhakar, D.L. Composite Structures, 60 PP 171-181 (2003)
25. Dynamic instability of stiffened plates subjected to non-uniform harmonic in-plane edge loading by Datta, P.K Srivastava, A.K.L. and Sheikh, A.H. Journal of Sound and Vibration, 262 PP 1171-1189 (2003)
26. Buckling and vibration of stiffened plates subjected to partial edge loading by Datta, P.K Srivastava, A.K.L. and Sheikh, A.H. Int. J. of Mech. Sc., 45 PP 73-93 (2003)

27. Buckling and vibration analysis of stiffened plate subjected to in-plane concentrated load by Datta, P.K
Srivastava, A.K.L. and Sheikh, A.H. Int. J. Struct. Engg. And Mechanics, 15 PP 685-704 (2003)