



Professor Anupam Chakrabarti

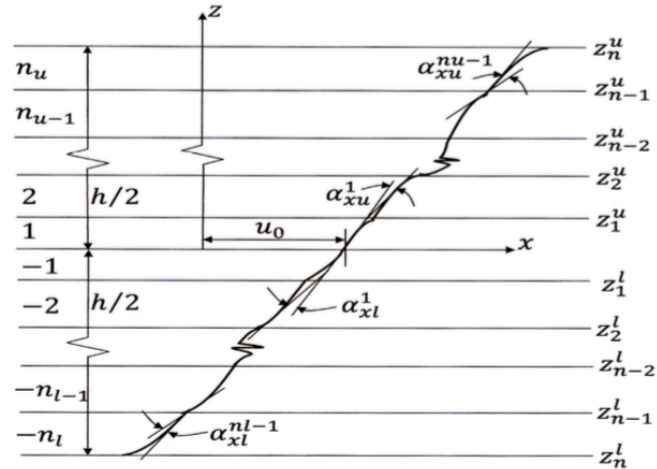


Figure 1 General lamination scheme and displacement configuration.

From: H.D. Chalak, Anupam Chakrabarti, Abdul Hamid Sheikh, Mohd. Ashraf Iqbal, "Buckling analysis of laminated sandwich beam with soft core", Latin American Journal of Solids and Structures, 9(3), 367-382, 2012

See:

<http://www.iitr.ac.in/departments/CE/pages/People+Faculty+achakfce.html>

https://www.researchgate.net/profile/Anupam_Chakrabarti

Department of Civil Engineering
Indian Institute of Technology Roorkee

Education:

2005 PhD Indian Institute of Technology Kharagpur

2009 Post Doctorate University of Adelaide

Research Interests:

1. Finite Element Analysis , 1. Sandwich Structures 2. Composite (FRP/Steel-concrete) structures 3. Functionally Graded Material
2. Application of FRP in Civil Engineering, FRP Bridge deck structures
3. Smart Structures, Coupled Thermo-electro-mechanical analysis: Piezoelectric materials, SMA

Award:

2009 Endeavour Research Award Government of Australia

Selected Publications:

Books:

S.K. Singh and A. Chakrabarti, Finite Element Modeling of Composites and Sandwich Laminates, Lambert Academic Publishing, ISBN 978-3-659-23481-1

Journal Articles:

1. Chakrabarti A. and Sheikh A.H. (2002). A new triangular element based on higher order shear deformation theory for flexural vibration of composite plates. *International Journal of Structural Stability and Dynamics*; 2(2): 163-184.
2. Sheikh A.H. and Chakrabarti A. (2003). A New Plate Bending Element Based on Higher Order Shear Deformation Theory for the Analysis of Composite Plates. *Finite Elements in Analysis and Design*; 39(9), 883-903.
3. Chakrabarti A. and Sheikh A.H. (2003). Buckling of laminated composite plates by a new element based on higher order shear deformation theory. *Mechanics of Advanced Materials and Structures*; 10 (4), 303-318.
4. Chakrabarti A. and Sheikh A.H. (2004). A New Triangular Element to model Inter-Laminar Shear Stress Continuous Plate Theory. *International Journal for Numerical Methods in Engineering*; 60(7), 1237-1257.
5. Chakrabarti A. and Sheikh A.H. (2004). Vibration of laminate faced sandwich plate by a new refined element. *Journal of Aerospace Engineering, ASCE*; 17(3), 123-134.
6. Chakrabarti A. and Sheikh A.H. (2004). Behavior of laminated sandwich plates having interfacial imperfections by a new refined element. *Computational Mechanics*; 34 (2), 87-98.
7. Topdar P., Chakrabarti A. and Sheikh A. H. (2004). An efficient hybrid plate model for analysis and control of smart sandwich laminates. *Computer Methods in Applied Mechanics and Engineering* 193, 4591-4610.
8. Chakrabarti A., Sengupta S.K. and Sheikh A.H. (2004). Analysis of skew composite plates using a new triangular element based on higher order shear deformation theory, *Journal of the Institution of Engineer, India*; 85, 77-83.
9. Chakrabarti A. and Sheikh A.H. (2004). Analysis of Laminated Sandwich Plates Based on Inter-Laminar Shear Stress Continuous Plate Theory. *Journal of Engineering Mechanics, ASCE*; 131(4), 377-384.
10. Chakrabarti Anupam and Sheikh Abdul Hamid (2005). Buckling of laminated sandwich plates subjected to partial edge compression. *International Journal of Mechanical Sciences*; 47(3), 418-436.
11. Chakrabarti Anupam and Sheikh Abdul Hamid (2005). Analysis of imperfect composites and sandwich laminates subjected to in-plane partial edge loading. *International Journal of Computational Methods*; 2(2), 181-200.
12. Chakrabarti Anupam and Sheikh Abdul Hamid (2005). Vibration of imperfect composite and sandwich laminates with in-plane partial edge load. *Composite Structures*; 71(2), 199-209.
13. Chakrabarti Anupam and Sheikh Abdul Hamid (2006). Dynamic instability of laminated sandwich plates using an efficient finite element model. *Thin-Walled Structures*; 44(1), 57-68.
14. Chakrabarti Anupam, Topdar Pijush and Sheikh Abdul Hamid (2006). Vibration of pre-stressed laminated sandwich plates with inter-laminar imperfections. *Journal of Vibration and Acoustics, ASME*; 128, 673-681.
15. Chakrabarti A., Topdar P. and Sheikh A.H. (2006). Vibration and buckling of laminated sandwich plates having interfacial imperfection. *European Journal of Mechanics A/Solids*; 25, 981-995.
16. Chakrabarti Anupam and Sheikh Abdul Hamid (2006). Dynamic instability of laminated sandwich plates subjected to in-plane partial edge loading. *Ocean Engineering Journal*; 33, 2287-2309.
17. Chakrabarti Anupam and Sheikh Abdul Hamid (2006). Buckling of laminated composite plates subjected to partial edge compression. *Journal of Reinforced Plastics and Composites*; 25(11), 1189-1204
18. Chakrabarti Anupam and Sheikh Abdul Hamid (2007). Vibration of composites and sandwich laminates subjected to in-plane partial edge loading. *Composites Science and Technology*; 67, 1047-1057
19. Chakrabarti A. and Sheikh A.H. (2007). Buckling of laminated sandwich plates by a new refined element. *International Shipbuilding Progress*; 54 (1), 63-81.
20. Chakrabarti Anupam, Chandra Amit and Bhargava Pradeep (2008). Finite Element Analysis of Concrete Columns confined with FRP sheets. *Journal of Reinforced Plastics and Composites*; 27 (12), 1349-1373.
21. Chakrabarti Anupam (2008). An efficient FE model for dynamic instability analysis of imperfect composite laminates. *Structural Engineering and Mechanics*; 30(3), 383-386.
22. Chakrabarti Anupam (2009). Dynamic instability of imperfect sandwich laminates by an efficient FE model. *Journal of Reinforced Plastics and Composites*; 28(4), 393-408.
23. Chakrabarti A., Sheikh A.H. (2009). Vibration and buckling of sandwich laminates having interfacial imperfections. *Journal of Sandwich Structures and Materials*; 11(4), 313-328.
24. Chakrabarti Anupam (2009). Vibration of imperfect sandwich plates having laminated stiff composite layers. *International Journal of Mechanical Engineering and Materials Science*. 2(1), 31-38.
25. Chakrabarti Anupam, Gupta Pramod Kumar, Chakraborty Sushanta and Katakam Girish Babu (2009). Modeling of Delamination in FRP Laminated Composites. *AMSE Periodicals on Modeling, Measurement and Control (Series B: Mechanics and thermics)*, 78(2), 47-63.
26. Chakrabarti Anupam, Iqbal Md. Ashraf and Prashant Agarwal (2009). Damage initiation of laminated FRP composite plates under impact loading. *International Journal of Applied Mechanics and Engineering*, 14(3), 659-682.

27. Chakrabarti Anupam, Gupta Pramod Kumar, Chakraborty Sushanta and Katakam Girish Babu (2009). Modeling of Delamination in FRP Laminated Composites: II. AMSE Periodicals on Modeling, Measurement and Control A, 82(3-4), 50-67.
28. Iqbal Ashraf Mohd., Chakrabarti Anupam, Beniwal Surendra, Gupta Narinder Kumar (2010). 3D Numerical Simulations of Sharp Nosed Projectile Impact on Ductile Targets. International Journal of Impact Engineering, 37(2), 185-195.
29. Chakrabarti Anupam and Sheikh Abdul Hamid (2010). Dynamic instability of composite and sandwich laminates having inter-laminar imperfections. International Journal of Structural Stability and Dynamics, 10(2), 205-224.
30. Chakrabarti Anupam and Sheikh Abdul Hamid (2010). Dynamic Instability of Imperfect Laminated Sandwich Plates with In-Plane Partial Edge Load. Latin American Journal of Solids and Structures, 7(4), 457-474.
31. Chakrabarti Anupam, Chalak H.D., Iqbal Mohd. Ashraf and Sheikh Abdul Hamid (2011). A new FE model based on higher order zigzag theory for the analysis of laminated sandwich beam with soft core. Composite Structures, 93(2), 271-279.
32. S.K. Singh, A. Chakrabarti, P. Bera, Sony J.S.D (2011). An Efficient C^0 FE Model for the Analysis of Composites and Sandwich Laminates with General Layup. LA J Solids and Structures, 8(2), 197-212.
33. S.K. Singh, A. Chakrabarti (2011). Hygrothermal analysis of laminated composites using a C_0 FE model based on RHSDT. International Journal of Earth science and Engineering, 4(6) SPL, 604-607.
34. Chakrabarti Anupam, Zeleke Adane and Bhargava Pradeep (2011). Behavior of Eccentrically Loaded RCC Columns Confined with FRP Sheets. International Journal of Applied Mechanics and Engineering, 16 (4), 943-958.
35. S.K. Singh and A. Chakrabarti (2011). Hygrothermal analysis of laminated composite plates by using efficient higher order shear deformation theory. Journal of Solid Mechanics, 3(1), 85-95.
36. Anupam Chakrabarti, A. H. Sheikh, M. Griffith, D. J. Oehlers (2012). Analysis of composite beams with partial shear interactions using a higher order beam theory. Engineering Structures, 36 (1), 283-291.
37. Manish K Khandelwal, P. Bera, A. Chakrabarti (2012). Influence of periodicity of sinusoidal bottom boundary condition on natural convection in porous enclosure. International Journal of Heat and Mass Transfer, 55(11-12), 2889-2900.
38. H.D. Chalak, Anupam Chakrabarti, Abdul Hamid Sheikh, Mohd. Ashraf Iqbal (2012). An improved C_0 FE model for the analysis of laminated sandwich plate with soft core. Finite Elements in Analysis and Design, 56, 20-31.
39. Ravi Prakash Khandelwal, Anupam Chakrabarti, Pradeep Bhargava (2012). An Efficient FE Model and LSE Method for accurate calculation of Transverse Shear Stresses in Composites and Sandwich Laminates. Composite: Part B Engineering, 43(4), 1695-1704.
40. Anupam Chakrabarti, A. H. Sheikh, M. Griffith, D. J. Oehlers (2012). Analysis of composite beams with longitudinal and transverse partial interactions using higher order beam theory. International Journal of Mechanical Sciences, 59(1), 115-125.
41. S. K. Singh, A. Chakrabarti (2012). Buckling analysis of laminated composite plates using an efficient C^0 FE model, LA J solids and Structures, 9(3), 353-366.
42. H.D. Chalak, Anupam Chakrabarti, Abdul Hamid Sheikh, Mohd. Ashraf Iqbal (2012). Buckling analysis of laminated sandwich beam with soft core. LA J Solids and Structures, 9(3), 367-382.
43. Chalak H.D., Chakrabarti Anupam, and Iqbal Mohd. Ashraf and Sheikh Abdul Hamid (2012). Vibration of laminated sandwich beams with soft core. Journal of Vibration and Control, 18 (10), 1422-1435.
44. Ajay Kumar, Pradeep Bhargava, Anupam Chakrabarti (2012). Natural frequencies and mode shapes of laminated composite skew hypar shells with complicated boundary conditions using finite element method. Advanced Materials Research, 585, 44-48.
45. Anupam Chakrabarti, A. H. Sheikh, M. Griffith, D. J. Oehlers (2012). Vibration and Buckling of composite beams with partial shear interactions using a higher order beam theory. International Journal of Structural and Civil Engineering Research, 1(1), 24-42.
46. Ajay Kumar, Pradeep Bhargava and Anupam Chakrabarti (2012). Vibration of laminated composite skew Hypar shells using higher order theory. Thin-Walled Structures, 63, 82-90.
47. Anupam Chakrabarti, A. H. Sheikh, M. Griffith, D. J. Oehlers (2013). Dynamic Response of composite beams with partial shear interactions using a higher order beam theory. Journal of Structural Engineering, ASCE, 139 (1), 47-56.
48. Tushar Kanti Dey, Ishan Srivastava, Ravi Prakash Khandelwal, Umesh Kumar Sharma, Anupam Chakrabarti (2013). Optimization of FRP rib core bridge deck. Composite: Part B Engineering, 45(1), 930-938.
49. H.D. Chalak, Anupam Chakrabarti, Abdul Hamid Sheikh, Mohd. Ashraf Iqbal (2013). Free vibration analysis of laminated soft core sandwich plates. Journal of Vibration and Acoustics ASME 135(1), 011013 (1-15).
50. Ravi Prakash Khandelwal, Anupam Chakrabarti, Pradeep Bhargava (2013). An efficient C_0 FE model based on RHSDT and LSE method for analysis of soft core sandwich plate. Computational Mechanics 51(5), 673-697.
51. Ajay Kumar, Anupam Chakrabarti and Mrunal Ketkar (2013). Analysis of laminated composite skew shells using higher order shear deformation theory. Latin American Journal of Solids and Structures 10, 891-919.
52. Ajay Kumar, Anupam Chakrabarti, Pradeep Bhargava (2013). Failure analysis of laminated composite spherical shells based on higher order theory. International Journal of Mechanical and Production Engineering 2, 92-98.

53. S.K. Singh and A. Chakrabarti, A.H. Sheikh (2013). Vibration of laminated composites using a C^0 FE model based on efficient higher order zigzag theory. *International Journal of Construction Materials and Structures* 1(1), 30-44.
54. Thool Kushal Prabhakar, A. Chakrabarti and A.K. Ahuja (2013). Effect of Interference on Wind loads on Tall buildings. *Journal of Academia and Industrial research (JAIR)* 1(12), 758-760.
55. Thool Kushal Prabhakar, A. Chakrabarti and A.K. Ahuja (2013). An experimental Investigation of Wind pressure developed in Tall Buildings for different plan shapes. *International Journal of Innovative Research and Studies.* 2(6), 605-614.
56. Tanmoy Mukhopadhyay, Rajib Chowdhury and Anupam Chakrabarti (2013). Reliability analysis of response surface based damage identification method. *International Journal of Scientific & Engineering Research* 4(5), 220-223.
57. S.C. Pandey, A. Chakrabarti and A.K. Ahuja (2013). Influence of proximity on Wind loads on Tall buildings. *Journal of Academia and Industrial research (JAIR)* 1(12), 801-803.
58. Ajay Kumar, Anupam Chakrabarti, Pradeep Bhargava (2013). Finite element analysis of failure of laminated composite skew cylindrical shells. *International Journal of Global Technology Initiatives* 2, 67-73.
59. Ajay Kumar, Anupam Chakrabarti, Pradeep Bhargava (2013). Vibration of laminated composite shells with cutouts using higher order shear deformation theory. *International Journal of Scientific and Engineering research* 4, 199-202.
60. Ravi Prakash Khandelwal, Anupam Chakrabarti, Pradeep Bhargava (2013). A new C_0 2D FE Model based on improved higher order Zigzag theory for the analysis of Soft core Sandwich plate. *International Journal of Applied Mechanics and Engineering* 18(2), 395-423.
61. Ishan Srivastava, Tushar Kanti Dey, Pradeep Bhargava, Anupam Chakrabarti (2013). Structural Optimization of FRP Web Core Decks. *Journal of composites for Construction, ASCE* 17(3), 395-405.
62. Ravi Prakash Khandelwal, Anupam Chakrabarti, B.K. Mishra, Pradeep Bhargava (2013). A New Heat Flux Continuity Model for Thermal Analysis of Laminated Plates. *Journal of Composite Materials* 47(17), 2053-2059.
63. Ajay Kumar, Anupam Chakrabarti, Pradeep Bhargava (2013). Vibration of laminated composites and sandwich shells based on higher order zigzag theory. *Engineering Structures* 56, 880-888.
64. Ravi Prakash Khandelwal, Anupam Chakrabarti, Pradeep Bhargava (2013). A new FE model for analysis of laminated soft core sandwich plate having interfacial imperfections. *Journal of Solid Mechanics* 4(4), 355-371.
65. Ravi Prakash Khandelwal, Anupam Chakrabarti, Pradeep Bhargava (2013). An efficient hybrid plate model for accurate analysis of smart composite laminates. *Journal of Intelligent Material Systems and Structures* 24 (16), 1927-1950.
66. Gulshan Taj, Anupam Chakrabarti (2013). Behaviour of Functionally Graded Skew plate. *Journal of Engineering Mechanics ASCE*, 139(7), 848-857.
67. Anupam Chakrabarti, Gulshan Taj, Abdul Hamid Sheikh (2013). Analysis of functionally graded plates using higher order shear deformation theory. *Applied Mathematical Modelling*, 37 (18-19), 8484-8494.
68. Gulshan Taj, Anupam Chakrabarti (2013). Dynamic response of functionally graded skew shell panel. *Latin American Journal of Solids and Structures*, 10(6), 1243-1266.
69. Gulshan Taj M.N.A. and Anupam Chakrabarti (2013). Buckling analysis of functionally graded skew plates: an efficient C_0 finite element approach, *International Journal of Applied Mechanics*, 5(4), 1350041-1350060.
70. Gulshan Taj M.N.A. and Anupam Chakrabarti (2013). An efficient C_0 finite element approach for bending analysis of functionally graded ceramic-metal skew shell panels, *Journal of Solid Mechanics*, 5(1), 47-62.
71. Tushar Kanti Dey, Anupam Chakrabarti, Umesh Kumar Shrama (2013). Optimization of FRP rib core bridge deck with Response Surface Method. *International Journal of Construction Materials and Structures*, 1(2), 39-49.
72. A. Chakrabarti, S. K. Singh, A. H. Sheikh (2013). Thermal vibration of composites and sandwich laminates using refined higher order zigzag theory. *Journal of Solid Mechanics*, 5(1), 35-46.
73. Ajay Kumar, Anupam Chakrabarti, Pradeep Bhargava (2013). Finite element analysis of laminated composite and sandwich shells using higher order zigzag theory. *Composite Structures*, 106, 270-281.
74. Ravi Prakash Khandelwal, Anupam Chakrabarti, Pradeep Bhargava (2013). Vibration and Buckling Analysis of Laminated Sandwich Plates having Soft Core. *International Journal for Structural Stability and Dynamics* 13(8). (doi: 10.1142/S021945541350034X).
75. Ravi Prakash Khandelwal, Anupam Chakrabarti, Pradeep Bhargava (2013). Interlaminar stresses in laminated shallow shell panel. *Acta Mechanica*, 224, 2735-2748.
76. H.D. Chalak, Anupam Chakrabarti, Abdul Hamid Sheikh, Mohd. Ashraf Iqbal (2014). C_0 FE model based on HOZT for the analysis of laminated soft core skew sandwich plates: bending and vibration. *Applied Mathematical Modelling* 38(4), 1211-1223.
77. Ajay Kumar, Anupam Chakrabarti, Pradeep Bhargava (2014). Accurate dynamic response of laminated composites and sandwich cylindrical shells based on higher order zigzag theory. *Thin-Walled Structures*, 77, 174-186.
78. S.K. Singh, A. Chakrabarti (2014). Thermal vibration of composites and sandwich plates using simple higher order shear deformation theory. *Journal of Structural Engineering*, 40(6), 586-596.

79. Gulshan Taj M.N.A. and Anupam Chakrabarti (2014). Bending analysis of functionally graded skew sandwich plates with through-the thickness displacement variations, *Journal of Sandwich structures and Materials*, 16(2), 210-248.
80. Md. Muslim Ansari, Anupam Chakrabarti, Md. Ashraf Iqbal (2014). Behaviour of FRP Composite Laminated Plate under Impact. *International Journal of Construction Materials and Structures*, 2(1), 1-8.
81. Ravi Prakash Khandelwal, Anupam Chakrabarti, Pradeep Bhargava (2014). Effect of interfacial imperfection on bending behavior of composites and sandwich laminates by an efficient C^0 FE model. *Thin Walled Structures*, 82, 170-182.
82. Harish C. Arora, Umesh K. Sharma, B. Kameshwar Rao and Anupam Chakraborty (2014). A pilot investigation for comparative assessment of corrosion durability of reinforced concrete beams. *Indian Concrete Journal*, 88(5), 36-57.
83. Gulshan Taj M.N.A. and Anupam Chakrabarti (2014). Free vibration analysis of four parameter functionally graded plate accounting for realistic transverse shear mode. *Vietnam Journal of Mechanics* 36(2), 145-160.
84. H.D. Chalak, Anupam Chakrabarti, Abdul Hamid Sheikh, Mohd. Ashraf Iqbal (2013). Buckling of laminated soft core sandwich plates. *Mechanics of Advanced Materials and Structures* (DOI:10.1080/15376494.2013.874061).
85. Ajay Kumar, Anupam Chakrabarti and Pradeep Bhargava (2013). Vibration of laminated composite skew cylindrical shells using higher order theory. *Journal of Vibration and Control* (DOI: 10.1177/1077546313492555).
86. S. K. Singh, A. Chakrabarti (2013). Static, vibration and buckling analysis of skew composite and sandwich plates under thermo mechanical loading. *International Journal of Applied Mechanics and Engineering*, 18(3), 887-898.
87. Ravi Prakash Khandelwal, Anupam Chakrabarti, Pradeep Bhargava (2014). Static and dynamic control of smart composite laminates. *AIAA Journal*, 52(9), 1896-1914.
88. Ravi Prakash Khandelwal, Anupam Chakrabarti, Pradeep Bhargava (2014). Accurate calculation of transverse shear stresses for soft core sandwich laminates. *Acta Mechanica*, 225(10), 2877-2891.
89. Gulshan Taj M.N.A., Anupam Chakrabarti, Vipul Prakash (2014). Vibration characteristics of functionally graded material skew plate in thermal environment, *International Journal of Mechanical, Aerospace, Industrial and Mechatronics Engineering*, 8(1), 142-153.
90. Ajay Kumar, Anupam Chakrabarti, Pradeep Bhargava (2014). An Efficient failure analysis of laminated composites and sandwich cylindrical shells based on higher order zigzag theory. *Journal of Aerospace Engineering, ASCE* (DOI: 10.1061/(ASCE)AS.1943-5525.0000433).
91. Bibekananda Mandal and Anupam Chakrabarti (2015). A simple homogenization scheme for 3D finite element analysis of composite bolted joints. *Composite Structures*, 120, 1-9.
92. Ravi Prakash Khandelwal, Anupam Chakrabarti (2015). Calculation of interlaminar shear stresses in laminated shallow shell panel using refined higher order shear deformation theory. *Composite Structures* (Accepted).
93. Tanmay Mukhopadhyay, tushar Kanti Dey, Sudip Dey, Anupam Chakrabarti (2015). Optimization of Fiber Reinforced Polymer Web Core Bridge Deck – a Hybrid approach. *Structural Engineering International* (Accepted).
94. S. K. Singh, A. Chakrabarti (2014). Hygro-thermal analysis of laminated composites using C^0 FE model based on an efficient higher order zigzag theory, *Journal of Structural Engineering and Mechanics*, (Communicated).
95. S. K. Singh, A. Chakrabarti (2014). Thermal buckling analysis of laminated composite plates using higher order zigzag theory. *International Journal of Structural Stability and Dynamics* (Communicated).
96. H.D. Chalak, Anupam Chakrabarti, Abdul Hamid Sheikh, Mohd. Ashraf Iqbal (2014). Failure analysis of laminated composite and sandwich plates using refined FE model. *International Journal of Applied Mechanics and Engineering* (Communicated).
97. Ravi Prakash Khandelwal, Anupam Chakrabarti, Pradeep Bhargava (2014). Efficient thermo-mechanical analysis of composites and sandwich laminates. *Advanced Mechanics of Materials and Structures* (Communicated).
98. Ravi Prakash Khandelwal, Anupam Chakrabarti, Pradeep Bhargava (2014). Vibration Response of Laminated Composite plate having interfacial slip. *Applied Mathematical Modeling* (Communicated).
99. Ravi Prakash Khandelwal, Anupam Chakrabarti, Pradeep Bhargava (2014). Coupled Electro-Mechanical analysis of composite laminates having inter-laminar slips. *Finite Elements in Analysis and Design* (Communicated).
100. Ajay Kumar, Anupam Chakrabarti, Pradeep Bhargava, Rajib Chowdhury (2014). An efficient reliability analysis of laminated composites and sandwich shells based on higher order zigzag theory. *Composites Part B: Engineering* (Communicated).
101. Tanmoy Mukhopadhyay, Rajib Chowdhury and Anupam Chakrabarti (2014). Structural damage identification using different design methods of response surface methodology: A comparative study. *Engineering Structures* (Communicated).
102. Tanmoy Mukhopadhyay, Rajib Chowdhury and Anupam Chakrabarti (2014). A metamodel based approach for structural damage identification using Random Sampling. *Applied Mathematical Modelling* (Communicated).
103. Ravi Prakash Khandelwal, Anupam Chakrabarti, Pradeep Bhargava (2015). Hygro-Thermo-Electro-Mechanical Analysis of Composite Laminates with/without Inter-laminar Slips. *International Journal of Solids and Structures* (Communicated).
104. Tushar Kanti Dey, Umesh Kumar Shrama, Anupam Chakrabarti, A. H. Sheikh (2015). A homogenization technique for FRP composite web core bridge deck panel. *Journal of Reinforced Plastics and Composites* (Communicated).

105. Tushar Kanti Dey, Anupam Chakrabarti, Umesh Kumar Shrama, Tanmoy Mukhopadhyay (2015). Optimization of FRP bridge deck system using Response Surface Method. Composite: Part B Engineering (Communicated)
106. Tushar Kanti Dey, Anupam Chakrabarti, Umesh Kumar Shrama (2015). Optimization of FRP web core skew bridge deck structure. Indoor and Built Environment (Communicated).
107. Gulshan Taj M.N.A. and Anupam Chakrabarti (2015). Modeling of functionally graded sandwich shells accounting for variation in transverse displacement, Journal of Mechanics of Advanced materials and Structures (Under Peer review).
108. Gulshan Taj M.N.A. and Anupam Chakrabarti (2015). On the modeling of four-variable power law functionally graded plates using an efficient and accurate theory, Proceedings of institution of Mechanical engineers: Part C (Under review).
109. Gulshan Taj M.N.A. and Anupam Chakrabarti (2015). Stability study on four-parameter power function based functionally graded plate models under thermo-mechanical environment. Chinese Journal of Aeronautics (Under review).
110. Gulshan Taj M.N.A., Anupam Chakrabarti (2015). Geometrically nonlinear analysis of shear deformable functionally graded ceramic-metal sandwich plates with symmetric layups. Finite Elements in Analysis and Design (Communicated).
111. Gulshan Taj M.N.A., Anupam Chakrabarti (2015). Large deformation analysis of spherical and hyperbolic paraboloid sandwich shells incorporating homogeneous/FGM core. Computer methods in Applied mechanics and Engineering (Communicated).
112. Gulshan Taj M.N.A., Anupam Chakrabarti (2015). Large deformation response of functionally graded cylindrical, hyperbolic paraboloid and elliptic paraboloid panels accounting for realistic transverse deformation. Archive of Applied Mechanics (Communicated).
113. Gulshan Taj M.N.A., Anupam Chakrabarti (2015). Nonlinear bending response of functionally graded spherical and hyper panels via higher order finite element model. ASCE Journal of Engineering Mechanics (Communicated).
114. Gulshan Taj M.N.A., Anupam Chakrabarti (2015). 2D FE model for post buckling analysis of functionally graded sandwich plates with symmetric layups. Composite Structures (Communicated).
115. Gulshan Taj M.N.A., Anupam Chakrabarti (2015). Non-linear 2D modelling of shear deformable functionally graded symmetric cylindrical and hyper sandwich shells. International Journal of Solids and Structures (Communicated).
116. Tushar Kanti Dey, Anupam Chakrabarti, Umesh Kumar Shrama (2015). Optimization of FRP bridge deck system using Genetic Algorithm. Journal of Composites for Construction ASCE (Communicated).