

Références bibliographiques

Références bibliographiques

| <i>Indices</i> | <i>Références</i> |
|----------------|--|
| [1] | Koizumi, M. (1993), "The concept of FGM, ceramic transactions", <i>Funct Grad Mater</i> , 34 , 3–10. |
| [2] | Vel, S.S., Batra, R.C. (2004), "Three-dimensional exact solution for the vibration of functionally graded rectangular plates", <i>J Sound Vib.</i> , 272 , 703–730. |
| [3] | Tauchert, TR. (1991), " Thermally induced flexure, buckling and vibration of plates", <i>ASME Appl Mech Rev</i> , 44 , 347–60. |
| [4] | Reddy, JN, Chin, CD. (1998), " Thermomechanical analysis of functionally graded cylinders and plates", <i>J Thermal Stress</i> , 21 ,593–626. |
| [5] | Reddy, JN. (2000), "Analysis of functionally graded plates", <i>Int J Numer Methods Eng</i> , 47 ,663–84. |
| [6] | Erdogan, F. (1995), " Fracture mechanics of functionally graded materials", <i>Compos Eng</i> , 5 ,770–3. |
| [7] | Jin, JH, Batra, RC. (1996), "Some basic fracture mechanics concepts of functionally graded materials", <i>J Mech Phys Solids</i> , 44 ,1221–35. |
| [8] | Praveen, GN, Reddy, JN. (1998), " Nonlinear transient thermoelastic analysis of functionally graded ceramic–metal plates", <i>Int J Solids Struct</i> , 35 (33),4457–76. |
| [9] | Birman V, Byrd LW. (2007), " Modeling and analysis of functionally graded materials and structures", <i>ASME Appl Mech Rev</i> , 60 ,195–216. |
| [10] | Zenkour, AM. (2007), "Benchmark trigonometric and 3-D elasticity solutions for an exponentially graded thick rectangular plate", <i>Appl Math Model</i> , 77 ,197–214. |
| [11] | Sladek, J, Sladek, V, Hellmich, CH, Eberhardsteiner, J. (2007), "Analysis of thick functionally graded plates by local integral equation", <i>Commun Numer Meth Eng</i> , 23 ,733–54. |
| [12] | Sladek, J, Sladek, V, Solec, P, Wen, PH, Atluri, SN. (2008), " Thermal analysis of Reissner– Mindlin shallow shells with FGM properties by the MLPG", <i>CMES – Comput Model Eng Sci</i> , 30 ,77–97. |
| [13] | Bo, Y, Hao-jiang, D, Wei-qiu, C. (2008), "Elasticity solutions for functionally graded plates in cylindrical bending", <i>Appl Math Mech</i> , 29 (8),999–1004. |
| [14] | Matsunaga, H. (2008),"Free vibration and stability of functionally graded plates according to 2-D higher-order deformation theory", <i>Compos Struct</i> , 82 ,256–70. |
| [15] | Matsunaga, H. (2009), "Stress analysis of functionally graded plates subjected to thermal and mechanical loadings", <i>Compos Struct</i> , 87 ,344–57. |
| [16] | Khabbaz, RS, Manshadi, BD, Abedian, A. (2009), " Nonlinear analysis of fgm plates under pressure loads using the higher-order shear deformation theories", |

| | |
|------|---|
| | <i>Compos Struct</i> , 89 ,333–44. |
| [17] | Zenkour, AM, Alghamdi, NA. (2010), "Thermo-mechanical bending response of functionally graded non symmetric sandwich plates", <i>J Sandwich Struct Mater</i> , 12 ,7–46. |
| [18] | Talha ,M, Singh, BN.(2010)," Static response and free vibration analysis of fgm plates using higher order shear deformation theory", <i>Appl Math Model</i> , 34 ,3991–4011. |
| [19] | Vaghefi, R, Baradaran ,GH, Koohkan, H.(2010), " Three-dimensional static analysis of thick functionally graded plates by using meshless local Petrov–Galerkin (MLPG) method", <i>Eng Anal Bound Elem</i> , 43 ,564–73. |
| [20] | Benachour, A, Tahar ,HD, Atmane, HA, Tounsi ,A, Ahmed ,MS. (2011), " A four variable refined plate theory for free vibrations of functionally graded plates with arbitrary gradient". <i>Composites: Part B</i> , 42 ,1386–94. |
| [21] | Thai, HT, Choi, DH. " A refined shear deformation theory for free vibration of functionally graded plates on elastic foundation", <i>Composites</i> ,Part B 2011. |
| [22] | Reddy, JN, Kim ,J. " A nonlinear modified couple stress-based third-order theory of functionally graded plates". <i>Compos Struct</i> 2012; 94:1128–43. |
| [23] | Mantari, JL, Guedes Soares, C.(2012), " Bending analysis of thick exponentially graded plates using a new trigonometric higher order shear deformation theory", <i>Compos Struct</i> , 94 ,1991–2000. |
| [24] | Navid, S. (2012), "Une approche très efficace pour l’analyse du dé laminage des plaques stratifiées infiniment longues", Thèse de PhD, Université de Paris Est, France. |
| [25] | Baron, C., Naili, S. (2008), "Propagation d’ondes élastiques au sein d’un guide d’ondes élastiques anisotrope à gradient unidirectionnel sous chargement fluide", <i>Compte Rendue Mécanique</i> , 336 (9), 722–730. |
| [26] | Yamanoushi, M., Koizumi, M., Hiraii T., Shoita, I. (1990), "Proceedings of the first international symposium on functionally gradient materials", editors, Japan. |
| [27] | Kawasaki, A., Watanabe, R. (1997)," Concept and P/M fabrication of functionally gradient materials". <i>Ceramics International</i> , 8842 (95),73–83. |
| [28] | Boch, P., Chartier, T., Huttepain ,M. (1986), " Tape casting of Al ₂ O ₃ /ZrO ₂ laminated Composites", <i>J. Am. Ceram. Soc</i> ; 69 (8),191-192. |
| [29] | Yin H.M., Sun L.Z. and Paulino, G.H., (2004), "Micromechanics-based elastic model for functionally graded materials with particle interactions", <i>Acta Materialia</i> , Vol. 52 , 3535-3543. |
| [30] | Koizumi, M.(1991), " FGM activities in Japan, Department of Materials Chemistry", <i>Ryukoku University, Ohtsu Japan</i> 520-21. |
| [31] | Koizumi, M., (1992), " Recent Progress of functionally graded materials in Japan. <i>Ceram. Eng</i> ", <i>Sci. Proc</i> , 13 (7-8),333-347. |
| [32] | Koizumi M., (1997), " FGM activities in Japan", <i>Composites</i> , 28 (1-2),1– 4. |
| [33] | Nguyen, T.K., Sab, K., Bonnet, G., (2007), " Shear correction factors of |

| | |
|------|--|
| | functionally graded plates". <i>Mech. Advanced Mater. Struct</i> ; 14 (8), 567-575. |
| [34] | Shen H.S., (2009), " Functionally Graded Materials: Nonlinear Analysis of Plates and Shells", <i>CRC Press</i> ,280 pages. |
| [35] | Miyamoto, Y., Nakanishi, H., Tanaka, I., Okamoto, T. and Yamada, O. Gas Pressure Combustion Sintering of TiC-Ni FGM. 'Proceedings of the First Int. Symp., FGM', Sendai, 1990, Functionally Gradient Materials Forum and the Society of Non-traditional Technology, Tokyo, 257-262. |
| [36] | Kieback, B., Neubrand, A., Riede, H. (2003)," Processing techniques for functionally graded materials", <i>Materials Science and Engineering A</i> , 362 (1-2),81–106. |
| [37] | Lostec, L., (1997)," Elaboration par coulage en bande et caractérisation microstructurale et mécanique de composite SiC/MAS-L, <i>Thèse de l'université de Limoges</i> . |
| [38] | Mistler R.E.,(1973), "High strength alumina substrates produced by a multiple layer casting technique", <i>Am. Ceram. Soc. Bull</i> , 52 (11), 850-854. |
| [39] | MOYA, J. S., SANCHEZ-HERENCIA, A. J., REQUENA, J. & MORENO, R., (1992), "Functionally Gradient Ceramics by Sequential Slip Casting", <i>Materials Letters, Vol, 14</i> , p,333-35. |
| [40] | Draiche, K. (2010), "Détermination des contraintes résiduelles dans les structures en matériaux à gradient de propriétés «FGM», mémoire de magistère en génie civil, Université de mascara". |
| [41] | BISHOP, A, LIN, C. Y., NAVARATNAM, M., RAWLINGS, R.D., & McSHANE, H.B, A,(1993)," Functionally Gradient Material Produced by a Powder Metallurgical Process, <i>Journal of Materials Science Letters</i> ", Vol. 12, p.1516-18. |
| [42] | Watremetz, B.,(2006)," Modèle thermomécanique 3D d'un matériau à gradient de propriétés à l'aide de techniques multigrilles. Application aux moules d'injection de polymères, Thèse de doctorat, Ecole doctorale des sciences pour l'ingénieur de Lyon". |
| [43] | TAKAHASHI, M., ITOH, Y. & KASHIWAYA, H., (1990), "Fabrication and Evaluation of W/Cu Gradient Material by Sintering and Infiltration Technique, in Proceeding of The First International Symposium on Functionally Gradient Materials-FGM'90"- <i>Sendai-Japan</i> , p,129-34. |
| [44] | KAWAI, C., WAKAMATSU, S., SAKAGAMI, S., & IGARASHI, T., Oxidation Resistant Coating with TiC-SiC Gradient Composition on Carbon Fiber Reinforced Composites by CVD, in Proceeding of The First International Symposium on Functionally Gradient Materials-FGM'90"- <i>Sendai-Japan</i> , 1990, p. 77-82. |
| [45] | G. Bao., L. Wang, (1995), " Multiple cracking in functionally graded ceramic/metal coatings", <i>Int. J; Solids Structures</i> , 32 (19), 2853–2871. |
| [46] | Timoshenko, S. (1921), "On the correction of transverse shear deformation of the |

| | |
|------|---|
| | differential equations for transverse vibrations of prismatic bars", <i>Philosophical Magazine</i> , Vol. 41 (series 46) p,744–746. |
| [47] | Reissner.E, (1945), "The effect of transverse shears deformation on the bending of elastic plates", <i>J. Appl. Mech.</i> , vol, 12 , pages, 69-77. |
| [48] | Timoshenko, S.P., Woinowsky-Krieger, S. (1959), " Theory of Plates and Shells". <i>McGraw-Hill, New York</i> . |
| [49] | Reddy, J.N. (1997), " Mechanics of Laminated Composites Plates: Theory and Analysis". <i>CRC Press, Boca Raton</i> . |
| [50] | Mindlin. R.D, (1951), "Influence of rotary inertia and shear on flexural motions of isotropic, elastic plates", <i>Journal of Applied Mechanics</i> , vol. 18 , pages, 31-38. |
| [51] | J.N. Reddy,(1999), " Theory and Analysis of Elastic plates ", <i>Taylor & Francis, Philadelphia</i> . |
| [52] | Whitney, J. M., and Sun, C. T.,(1973), "A Higher Order Theory for Extensional Motion of Laminated Composites," <i>J. Sound and Vibration</i> , Vol. 30, Sept. , pp,85-97. |
| [53] | Hildebrand. F.B, E. Reissner, G.G. Thomas, (1949), " —Notes on the foundations of theory of small displacements of orthotropic shells", NACA T. N. N°:1833. |
| [54] | Naghdi. P. M, (1957). "On the theory of thin elastic shells", <i>Quarterly Appl. Math</i> , 14 , 369- 380. |
| [55] | Reissner. E, (1975), "On transverse bending of plates, including the effects of transverse shear deformation", <i>Int. J. Solids Structures</i> , 25 (5) ,495-502. |
| [56] | Reddy. J.N, (1984), "A simple higher-order theory for laminated composite plates", <i>Journal of Applied Mechanics</i> , 51 (4),745-752. |
| [57] | Kant.T, K. Swaminathan, (2002), "Analytical solutions for the static analysis of laminated composite and sandwich plates based on a higher order refined theory", <i>Composite Structure</i> , 56 (4) , 329-344. |
| [58] | Nelson. R.B & D.R.Lorch, (1974), "A refined theory for laminated orthotropic plates", <i>ASME Journal of Applied Mechanics</i> , Vol. 41 , pages 177-183. |
| [59] | Lo. K.H & R.M. Christensen, (1977), "A higher order theory of plate deformation", Part1: homogeneous plate'sl .journal of applied mechanics, Vol.44, N° 4, pages 669-676. |
| [60] | Touratier. M, (1991), "An efficient standard plate theory", <i>Engng Sci</i> , vol. 29, no 8, pages 901-916. |
| [61] | Ambartsumian. S.A, (1969), "Theory of anisotropic plate", <i>Technomic Publishing Co</i> . |
| [62] | Murthy. M.V.V, (1981), "An improved transverse shear deformation theory for laminated anisotropic plate. Rapport technique, NASA". |
| [63] | Dau. F, O. Polit, and M.c 2006), "Touratier: Plaque de C1 et shell éléments finis pour l'analyse géométriquement non linéaire de structures multicouche", |

| | |
|------|---|
| | <i>Computers and Structures</i> , 84 ,1264-1274. |
| [64] | Polit. O and M, (1997),"Touratier: Un nouvel élément triangulaire Interface fini laminé pour assurer la continuité des déplacements et stresses", <i>Composite Structures</i> , 38 (1-4) ,37-44. |
| [65] | Kirchhoff, G.R, (1850)," Sur la balance et le mouvement d'un disque élastique. J. Reine Angew", <i>Math. (Crelle)</i> , 40 , 51-88 . |
| [66] | Soldatos,K.P., (1992),"A transverse shear deformation theory for homogeneous" <i>monoclinic plates.ActaMech</i> , 94 (3), 195–220 . |
| [67] | Shimpi, R.P,(2002),"Théorie des plaques raffinée et ses variantes", <i>AIAA Journal</i> , 137–146. |
| [68] | Karama,. M, K.S. Afaq., S. Mistou, (2003), "Comportement mécanique de la poutre composite stratifiée par le nouveau modèle de structures composites multicouches stratifiés avec cisaillement transversal de stress continuité", <i>Int. J. Solids Structures</i> , 40 (6), 1525-1546. |
| [69] | Aydogdu, M., (2005) , "Vibration analysis of cross-ply laminated beams with general boundary conditions by Ritz method", <i>International Journal of Mechanical Sciences</i> , 47 ,1740–1755 . |
| [70] | El Meiche, N, Tounsi, A., Ziane, N., Mechab, I. et Adda Bedia , (2011), " Une nouvelle théorie de déformation de cisaillement hyperbolique pour le flambement et la vibration de plaque sandwich gradation fonctionnelle", <i>International Journal of Mechanical Sciences</i> , 237–247. |
| [71] | Zenkour, AM, (2013), "A simple four-unknown refined theory for bending analysis of functionally graded plates", <i>Appl Math Model</i> , 37 ,9041–51. |
| [72] | Thai, H.T., Kim, S.E, (2012) , "Analytical solution of a two variable refined plate theory for bending analysis of orthotropic Levy-type plates", <i>International Journal of Mechanical Sciences</i> , 54 , 269–276 |
| [73] | Thai, H-T, Choi, DH, (2012), "An efficient and simple refined theory for buckling analysis of functionally graded plate", <i>Appl Math Model</i> , 36 , 1008–1022. |
| [74] | Carrera, E., (2000). "An assessment of mixed and classical theories on global and local response of multilayered orthotropic plates", <i>composite structures</i> , vol, 50 , pages 183, 198. |
| [75] | Afaq et al, (2003), K.S. Afaq M. Karama & Mistou S. "Un nouveau modèle raffiné pour les structures multicouches", <i>Comptes-rendus des 13èmes Journées Nationales sur les Composites</i> , pages 289-292. |
| [76] | Di Sciuva, M,(1987), "An improved shear deformation theory for moderately thick multilayered anisotropic shells and plates", <i>journal of applied mechanics</i> , vol. 54 , pages 589-596. |
| [77] | Srinivas, S, (1973),"A refined analysis of composite laminates", <i>Journal of sound and vibration</i> , Vol 30 , No 4, pages 495,507. |
| [78] | Ren, J.G, (1986),"A new theory of lamina ted plate ", <i>composite science and technology</i> vol 26 , pages 225, 239. |

| | |
|------|---|
| [79] | Yin, W.L.(1994) " Interlaminar stress analysis of composite laminates using a sub-laminate layer ", <i>model international journal of solids and structures</i> vol 31 , no 11 , pages 1549, 1564. |
| [80] | Kassapoglou, C. el al, (1987),"Closed form solutions for the interlaminar stress field in angle-ply and cross-ply laminates", <i>journal of composite materials</i> vol 27 , pages 292,308. |
| [81] | Nguyen, Tung, v, (2004), "Modélisation globale et locale des structures multicouches par éléments finis d e plaques ", <i>thèse de doctorat de l'école nationale des ponts et chaussées</i> . |
| [82] | Carrera, E. (2001), " Developments ideas and evaluations base d upon Reissner's mixed variational theorem in the modeling of multilayered plates and shells", <i>Appl. Mech. Revs.</i> 54 , 301-329. |
| [83] | Demasi, L. (2009), "Mixed plate theories based on the generalized unified formulation Part I", <i>governing equations, Compos. Struct.</i> 87 , 1-11. |
| [84] | Talha, M, Singh, B.N. (2010), "Static response and free vibration analysis of FGM plates using higher order shear deformation theory appl", <i>Math. Model.</i> 34 , 3991-4011. |
| [85] | Carrera, E., Brischetto, S., Nali, P. (2011), "Plates and shells for smart structures classical and advanced theories for modeling and analysis", <i>Wiley New York, Usa</i> . |
| [86] | Reddy, J.N. (2011), "A general nonlinear third order theory of functionally graded plates", <i>Int. j. aerospace Lightweight Structures</i> , 1 , 1-21. |
| [87] | Mantari, J.L., Guedes Soares, C. (2013), " A novel higher order shear deformation theory with stretching effect for functionally graded plates" <i>Comp Part B, Eng</i> 45 , 268-281. |
| [88] | Draiche, K., Tounsi, A., Mahmoud, S.R, (2016), "A refined theory with stretching effect for the flexure analysis of laminated composite plates", <i>Geomechanics and Eng.</i> , 11 (5), 671–690. |
| [89] | Benbakhti, A., Bachir Bouiadjra, M., Retiel, N., and Tounsi, A. (2016), "A new five unknown quasi-3D type HSDT for thermo-mechanical bending analysis of FGM sandwich plates", <i>Steel and Compos. Struct</i> , 22 (5), 975–999. |
| [90] | Benahmed, A., Houari, M.S.A., Benyoucef, S., Belakhdar, K. and Tounsi, A. (2017), "A novel quasi-3D hyperbolic shear deformation theory for functionally graded thick rectangular plates on elastic foundation", <i>Geomechanics and Eng</i> , 12 (1), 9–34. |
| [91] | Levy, M, (1877),"Mémoire sur la théorie des plaques élastique planes", <i>J Math Pures Appl</i> , 30 ,219–306. |
| [92] | Stein, M, (1986), "Nonlinear theory for plates and shells including the effects of transverse shearing", <i>AIAA</i> , 24 (9):1537–44. |
| [93] | Zenkour, AM, (2006), "Generalized shear deformation theory for bending analysis of functionally graded plates", <i>Appl Math Model</i> , 30 ,67–84. |