

Références bibliographiques

- [1] **Silverman**, IK :Orthotropic beams under polinomial loads.Proceeding ASCE.G.Eng.Mech.Div.90,293-319(1964).
- [2] **Lkhnitskili,S.G.Otrnis** :Anisotropic plate. Gordon and Breach, New York(1968).
- [3] **Timoshenko , S.P.Goodier,J.N.**:Theort of elasticity,3rd end.McGraw-Hill,New York(1970)
- [4] **Delale,F.,Erdogan,F.**:The crack problem for a non homogeneous plane.ASMEJ.Appl.Mech.50,609-614(1983)
- [5] [Reddy 84] **Reddy, J.N.**, « *A simple higher order theory for laminated composite plates* », ASME J. Appl. Mech. 51,745–752, 1984.
- [6] **Noda,N**,1991.Thermal stresses in materials with temperature-dependent properties,Applied [Kamara 93] **Kamara, M., Touratier, M., Idlibi, A.**, «*An evaluation of the edge solution for higher-order laminated plate theory*». Compos. Struct.25, 495-502, 1993MechanicsReviews,44:383-397.
- [7] **Tanigawa,Y.**,1995.Some basic thmoelastic problems for nonhomogeneous structural materials,Applied Mechanics Reviews,48:287-300.
- [8] **Ahmed,S.R.,Idris,B.M.,Uddin,M.W.**:Numerical solution of both ends fixed deep beams.Comput.Struct.61(1),21-29(1996).
- [9] [Kant 98] **Kant, T., Marur, S.R., Rao, G.S.**, « *Analytical solution to the dynamic analysis of laminated beams using higher order refined theory*», composite structure vol.40, N°.1, pp.1- 9, (9), 1998
- [10] **Praveen,G.N.and J.N.Reddy**,1998.Nonlinear Transient Thermoelastic Analysis of fonctionnally Graded Ceramic Metal Plates, Int.J.Solids Stuctures ,35(33):4457-4476.
- [11] **Sankar,B.V.**,2001.An lasticity Solution for functionally graded beams,Composites Sciences and Technology,61(5):689-696.
- [12] [Huang 01] **Huang, D., Sun, B.H.**, « *Approximation solution on Smart composite beam by using Matlab* », composite structures 54, pp.197-205, (9), Sud Afrique, 2001.
- [13] [Pauchard 01] **Pauchard, V., Campion, H.B., Grosjean, F., Odru, P.**,
- [14] **Chateauminois, A.**, « *Développement d'un modèle de durabilité de poutres composites unidirectionnelles renforcées par des fibres de verre* », Oil & Gas science and technology-Rev. IEP, vol. 56, N°.6, pp.581-595, (15), France, 2001.

- [15] Shi,Z.F.:General solution of a density functionally gradient piezoelectric contilever and its applications.Smart Mater.Stuct.11,(2002).
- [16] Chakraborty,A.,2003.S.Gopalakrishnan and J.N.Reddy,A new beam finite element for the analysis of functionally graded materials,International J.Mechanical Sci.
- [17] Venkataraman,S.,Sankar,B.V.:Elasticity solution for stresses in a sandwich beam with functionally graded core.AIAAJ.41,2501-20505(2003).
- [18] Zhang ,L.N.,Shi,Z.F.:Analytical solution of a simply supported piezoelectric beam subjected to a uniformy distributed loading.Appl.Math Mech.24,1215-1223(2003).
- [19] Shi.Z,F.,Chen,Y.:Functionally graded piezoelectric cantilever beam under load.Arch. Appl.Mech.74(2004).
- [20] Zhu,H.,Sankar,B.V.:Ambined fourier seriers-Galerkin method for the analysis of functionally graded beams.ASMEJ.Appl.Mech.71(2004).
- [21] [Della 05] Della, C.N., Shu, D., «Free vibration analysis of composite beams with overlapping delimitations», European Journal of Mechanics A/Solids 24, pp. 491-503, (13), Singapore, 2005.
- [22] Ding,H.J.,Huang,D.J.,Wang,H.M.:Analytical solution for fixed-end beam subjected to uniform load.J.Zhejiang Univ.Sci.64(8),(2005).
- [23] [Dong 05] Dong, X.J., Meng , G., Li, H.G., «Vibration analysis of a stepped laminated composite Timoshenko beam», Mechanics research communications 32, pp. 572-581, (10), Australia, 2005.
- [24] Ding,H.J.,Huang,D.J.,Chen,W.Q.:Elasticity solution for plane anisotropic functionally graded beams Int.J.Solids.Struct.44,(2007).
- [25] Huang,D.J.,Ding,H.J.,Chen,W.Q.:Analytical solution for functionally graded anisotropic cantilever beam subjected to linearly distributed load .J.Appl.Math.Mech.28.(2007).
- [26] Huang,D.J.,Ding. H.J.,ChenW.Q.:Piezoelasticity solution for functionally graded piezoelectric beams.Smart.Mater .Stuct.16(2007).
- [27] Zhong , Zheng ,Yu,Tao:Analytical solution of a cantilver functionally graded beam Compos.Sci.Tech.67(2007).
- [28] Benatta , M.A.,I.Mechab,A.Tounsi and E.A.Adda Bedia .2008.Static analysis of functionally graded short beams including warping and shear deformation effects, Computational Materials Science,44(2).
- [29] Kadoli,R.,KAkhtar and N.Ganesan,2008.Static analysis of functionally graded beams using higher order shear deformation theory, Applied Mathematical Modeling,32 (12).

- [30] **Kapuria ,S.,M.Bhattacharyya and A.N.Kumar**,2008.Bending and free vibration response of layered functionally graded beams :A theoretical model and its experimental validation, Composite Structures,82(2).
- [31] **Li,X.F.**,2008.A unified approach for analyzing static and dynamic behaviors of functionally graded Timoshenko and Euler-Bernoulli beams,J.Sound and vibration.
- [32] **Sallai,B,O,Tounsi,A,Mechab,I,Bachir Bouiadjra,M,Meradjah,M,Adda Bedia,** E.A. :ATheoretical analysis of flexional bending of AL/AL₂O₃ S-FGM thick beams.Comput.Mater.Sci.44.(2009).
- [33] **[Kessas 2009]** Etude de l'effet de cisaillement transverse sur le comportement des poutres composites. Thèse Magister en génie civil de l'université Mentouri, Constantine.
- [34] **[Elomari 2010]** Analyse de la vibration libre des poutres en E-FGM à section transversale variable. Thèse Master en génie civil de l'université Djilali Laibas sidi bel-Abas.