

## BIBLIOGRAPHY

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- [1] Akoz, A. Y. and Tauchert, T. R., “Thermal stresses in an orthotropic elastic semispace”, *J. Appl. Mech.*, **39**, 87-90, 1972.
- [2] Altenbach, H. J., Altenbach, W. and Kissing, W., “Mechanics of Composite Structural Elements”, Springer-Verlag, Berlin Heidelberg, 2004.
- [3] Altenbach, H. J. and Krunch S., “Materials modelling for structures”, Springer, New York, 2013.
- [4] Ang, D. D. and Williams, M. L., “Combined stresses in an orthotropic plate having a finite crack”, *J. Appl. Mech.*, **28**, 372-378, 1961.
- [5] Arcisz, M. and Sih, G. C., “Effect of orthotropy on crack propagation”, *Theor. Appl. Fract. Mech.*, **1**, 225-238, 1984.
- [6] Atkinson, C. and Clements, D. L., “On some crack problem in anisotropic thermo-elasticity”, *Int. J. Solids Struct.*, **13**, 855-864, 1977.
- [7] Baksi, A., Das, S. and Bera, R. K., “A note on thermo-elastic problem of two collinear Griffith cracks in an orthotropic medium”, *Int. J. Pure Appl. Math.*, **36**, 365-374, 2007.
- [8] Baksi, A., Das, S. and Bera, R. K., “Impact response of a cracked orthotropic medium-revisited”, *Int. J. Engng. Sci.*, **41**, 2063-2079, 2003.
- [9] Barn-blatt, G. I. and Cherepanoe, G. P., “On the equilibrium and propagation of cracks in an isotropic medium”, *J. Appl. Math. Mech.*, **25**, 61-74, 1961.
- [10] Bellman, R., Kolaba, R. E. and Lockette, J. A., “Numerical Inversion of the Laplace Transform”, American Elsevier Pub. Co., New York, 1966.
- [11] Beom, H. G., Jang, H. S. and Zhuo, X. R., “Debonding of the interface between a thin film and an orthotropic substrate”, *Engng. Fract. Mech.*, **124**, 217-233, 2014.
- [12] Beom, H. G., Zhuo, X. R. and Cui, C. B., “Tunneling cracks in the adhesive layer of an orthotropic sandwich structure”, *Int. J. Engng. Sci.*, **63**, 40-51, 2001.
- [13] Bousquet, A. Marie, S. and Bompard, P., “Propagation and arrest of cleavage cracks in a nuclear pressure vessel steel,” *Comput. Materials Sci.*, **64**, 17-21, 2012.
- [14] Chen, B. and Zhang, X., “On plane Thermo-elasticity problem of an orthotropic strip with two collinear cracks”, *J. Northwestern Polytechnical Univ.*, **11**, 121-126, 1993.

- 
- [15] Chen, B. and Zhang, X., "Thermo-elasticity problem of an orthotropic plate with two collinear cracks", *Int. J. Fract.*, **38**, 161-192, 1988.
- [16] Chudnovsky, A. and Kachanov, M., "Interaction of a crack with a field of micro cracks", *Int. J. Engng. Sci.*, **21**, 1009-1018, 1983.
- [17] Clement, D. L., "A thermo-elastic problem for a crack between dissimilar anisotropic media," *Int. J. Solids and Struct.*, **19**, 121-130, 1983.
- [18] Clements, D. L. and Tauchert, T. R., "A thermo-elastic crack problem for an anisotropic slab", *J. Austral. Math. Soc.*, **21**, 243-255, 1979.
- [19] Comniou, M., "The interface Crack", *J. Appl. Mech.*, **44**, 631-636, 1977.
- [20] Cooke, J. C. "The solution of some integral equations and their connection with dual integral equations and series", *Glasgow Math. J.*, **11**, 9-20, 1970.
- [21] Dai, P., Yang, J., Li, H. and Li, Z., "The plasticity-corrected stress intensity factor for plane stress Mode I and Mode II cracks", *Engng. Fract. Mech.*, **128**, 231-235 2014.
- [22] Danyluk, H. T. and Singh, B. M., "Closed form solutions for a finite length crack moving in an orthotropic layer of finite thickness", *Lett. Appl. Engng. Sci.*, **22**, 637-644, 1984.
- [23] Das, A. K. and Behra, B., "Distribution of pressure necessary to produce Griffith cracks of prescribed shape in an orthotropic medium", *Indian J. Technol.*, **20**, 419-48, 1982.
- [24] Das, S. and Patra, B., "Pair of collinear interface cracks between dissimilar fixed orthotropic layers", *Int. J. Comput. Civ. Struct. Engng.*, **1**, 65-78, 2005.
- [25] Das, S. and Patra, B., "Stress intensity factors for an interfacial Griffith crack in composite media", *Int. J. Engng. Sci.*, **37**, 453-475, 1999.
- [26] Das, S. and Patra, B., "Stress intensity factors for moving interfacial crack between bonded dissimilar fixed orthotropic layers", *Comput. Struct.*, **69**, 459-472, 1998.
- [27] Das, S., "Interaction of moving interface collinear Griffith cracks under anti-plane shear," *Int. J. Solids Struct.*, **43**, 7880-7890, 2006.
- [28] Das, S., Patra, B. and Debnath, L., "On elasto-dynamical problem of interfacial Griffith cracks in Composite media", *Int. J. Engng. Sci.*, **42**, 735-752, 2004.
- [29] De, J. and Patra, B., "Moving Griffith crack in an orthotropic strip", *Int. J. Engng. Sci.*, **28**, 809-819, 1990.

- [30] De, J. and Patra, B., "Propagation of two collinear Griffith cracks in an orthotropic strip", *Engng. Fract. Mech.*, **46**, 835-842, 1993.
- [31] De, J. and Patra, B., "Thermo-elastic problem of an orthotropic elastic plane containing a cruciform crack", *Int. J. Engng. Sci.*, **30**, 1041-1048, 1992.
- [32] Delale, F. and Erdogan, F., "On the mechanical modeling of the interfacial region in bonded half-planes", *J. Appl. Mech.*, **55**, 317-324, 1988.
- [33] Dhaliwal, R. S. and Singh, B. M., "Two coplanar Griffith cracks in an infinitely long elastic strip", *J. Elasticity*, **11**, 229, 1981.
- [34] Dhaliwal, R. S., Saxena, H. S. and Rokne, G. G., "Elasticity: Mathematical methods and applications", Halsted Press, New York, 1990.
- [35] Dhaliwal, R. S., "Two coplanar cracks in an infinitely long orthotropic elastic strip", *Util. Math.*, **4**, 115-128, 1973.
- [36] England, A. H., "A crack between dissimilar media", *J. Appl. Mech.*, **28**, 400-402, 1965.
- [37] England, A. H. and Green, A. E., "On some two dimensional punch and crack problems in classical elasticity", *Math. Proc. Cambridge*, **59**, 489-500, 1963.
- [38] Erdogan, F. and Gupta, G., "The stress analysis of multilayered composite with a flaw", *Int. J. Solids Struct.*, **7**, 1089-1107, 1971.
- [39] Erdogan, F. and Sih, G. C., "On crack extension in plates under plane loading and transverse shear", *J. Basic Eng.*, **85**, 519-527, 1963.
- [40] Escobar, F. H., Leguízamo, F. A. and Cantillo, J. H., "Comparison of Stehfest's and Iseger's algorithms for Laplacian inversion in pressure well tests", *ARPN J. Engng. Appl. Sci.*, **9**, 919-922, 2014.
- [41] Evans, R., Clarke, A., Gravina, R., Heller, M. and Stewart, R., "Improved stress intensity factors for selected configurations in cracked plates", *Engng. Fract. Mech.*, **127**, 296-312, 2014.
- [42] Fischer-Cripps, A. C., "Introduction to contact mechanics", Springer, New York, 2007.
- [43] Freund, L. B., *Dynamic fracture mechanics*, Cambridge University press, New York, 1990.

- 
- [44] Freund, L. B., "The stress intensity factor due to normal impact loading on the faces of a crack", *Int J. Engng. Sci.*, **12**, 179-189, 1974.
- [45] Gutesen, A. K. and Dundurs, J., "The interface crack in a tension field", *J. Appl. Mech.*, **54**, 93-98, 1987.
- [46] Georgiadis, H. G. and Papadopoulos, G. A., "Determination of SIF in an cracked plane orthotropic strip by Wiener-Hopf technique", *Int. J. Fract.*, **34**, 57-64, 1987.
- [47] Gilbert, R. P. and Wei, L., "Function theoretic solutions to problems of orthotropic elasticity", *J. Elasticity*, **15**, 143-154, 1985.
- [48] Gorbatikh, L., Lomov, S. and Verpoest, I., "On stress intensity factors on multiple cracks at small distance in 2D problems", *Int. J. Fract.*, **143**, 377-384, 2007.
- [49] Gonzalez, C. R. and Mason, J. J., "Dynamic stress intensity factors at the tip of a uniformly loaded semi-infinite crack in an orthotropic material", *J. Mech. Phy. Solids*, **48**, 899-925, 2000.
- [50] Griffith, A. A., "The phenomena of rapture and flow in solids", *Philos. Trans. R. Soc. Lond.*, **A 221**, 163-197, 1921.
- [51] Griffith, A. A., "The theory of Rapture", *Proc. First Int. Conf. Appld. Mech.*, 1924.
- [52] Hetnarski, R. B. and Ignaczak, J., "The mathematical theory of Elasticity", CRC press, Boca Raton, 2010.
- [53] Hongmin,X., Xuefeng,Y., Xiqiao,F. and Yeh,H. Y., "Dynamic stress intensity factors of a semi-infinite crack in an orthotropic functionally graded material", *Mech. Mater.*, **40**, 37-47, 2008.
- [54] Horii, M. and Nasser, S. N., "Interacting micro-cracks near the tip in the process zone of a macrocrack", *J. Mech. Phy. Solids*, **35**, 601-629, 1987.
- [55] Hutchinson, J. W. and Suo, Z., "Mixed mode cracking in layered material", *Adv. Appl. Mech.*, **29**, 63-191, 1992.
- [56] Itou, S. and Rengen, Q., "Thermal stresses around two collinear Griffith cracks in an adhesive layer between two dissimilar elastic half-planes", *J. Therm. Stresses*, **18**, 185-196,1995.
- [57] Itou, S. and Rengen, Q., "Thermal stresses around two parallel cracks in two bonded dissimilar elastic half-planes", *Arch. Appl. Mech.*, **63**, 377-385, 1993.
- [58] Itou, S., "A sandwich layer containing an interface crack", *Int. J. Engng. Fract. Mech.*, **29**, 549-555 1988.

- 
- [59] Itou, S., “Dynamic stress intensity factors for two parallel interface cracks between a non-homogeneous bonding layer and two dissimilar elastic half-planes subject to an impact load”, *Int. J. Solids Struct.*, **47**, 2155-2163, 2010.
- [60] Itou S., “Thermal stresses around a crack in an adhesive layer between two dissimilar elastic Half-planes”, *J. Therm. Stresses*, **16**, 373-400, 1993.
- [61] Itou, S., “Thermal stresses around an isolated crack in an infinite elastic layer”, *Trans. Jpn. Soc. Mech. Eng.*, **57**, 1752-1758, 1991.
- [62] Itou S., “Thermal stress intensity factors of an infinite orthotropic layer with a crack”, *Int. J. Fract.*, **103**, 279-291, 2000.
- [63] Itou, S., “Thermal stresses around two parallel cracks in an infinite orthotropic plate under uniform heat flow”, *J. Therm. Stresses*, **24**, 677-694, 2001.
- [64] Itou, S., “Thermal stresses around two upper cracks placed symmetrically about a lower crack in an infinite orthotropic plane under uniform heat flux”, *J. Theo. Appl. Fract. Mech.*, **52**, 617-628, 2014.
- [65] Itou, S., “Dynamic stress intensity factors around two coplanar Griffith cracks in an orthotropic layer sandwiched between two isotropic elastic half planes”, *Engng. Fract. Mech.*, **34**, 1085-1095, 1989.
- [66] Inglis, C. E., “Stress in a plate due to the presence of cracks and sharp corners”, *Trans. Inst. Nav. Archit.*, **55**, 219-241, 1913.
- [67] Irwin, G. R., “Analysis of stress and strains near the end of a crack traversing a plate”, *J. Appl. Mech.*, **24**, 361-364, 1957.
- [68] Irwin, G. R., “Crack extension force for a part through crack in a plate”, *Trans. ASME J. Appl. Mech.*, **29**, 651-654, 1962.
- [69] Irwin, G. R., “Fracture dynamics, fracturing of metals”, American Society for metals, Cleveland, 147-166, 1948.
- [70] Irwin, G. R., “Fracture handbuch der physic”, Springer-verlag, Berlin, 6, 551-590, 1958.
- [71] Irwin, G. R., “Relation of stress near a crack to the crack extension force”, *Proc. Inter. Cong. Appl. Mech.*, University of Brussels, **8**, 245-251, 1957.
- [72] Kachanov, M. and Montagut, E., “Interaction of a crack with certain microcraack array”, *Engng. Fract. Mech.*, **25**, 625-636, 1989.

- 
- [73] Karpenko, L. N., "Approximate solution of singular integral equation by means of Jacobi polynomials", *J. Appl. Math. Mech.*, **30**, 668-675, 1967.
- [74] Kassir, M. K. and Bandopadhyay, K. K., "Impact response of a cracked orthotropic medium", *J. Appl. Mech.*, **50**, 630-636, 1983.
- [75] Kassir, M. K. and Tse, S., "Moving Griffith crack in an orthotropic material", *Int. J. Engng. Sci.*, **21**, 315-325, 1983.
- [76] Kobayashi, A. S. and Moss, W. L., "Stress intensity magnification factors for surface-flawed tension plate and notched round tension bar", *2nd Int. Conf. Fracture*, 1969.
- [77] Konishi, Y. and Atsumi, A., "Infinite orthotropic strip with internal crack", *Int. J. Engng. Sci.*, **11**, 9-21, 1973.
- [78] Kushwaha, P. S., "Stress intensity factor in orthotropic medium in the presence of symmetrical body forces", *Int. J. Fract.*, **14**, 443-451, 1978.
- [79] Lee, K. H., "Stress and displacement fields for propagating the crack along the interface of dissimilar orthotropic materials under dynamic Mode I and Mode II load", *Trans. ASME J. Appl. Mech.*, **67**, 223-228, 2000.
- [80] Lekhnitskii, S. G., "Theory of elasticity of an anisotropic elastic body", Holden-Day, San Francisco, 1963.
- [81] Li, Y., Itoh, H., Hasegawa, K., Osakabe, K. and Okada, H., "Development of stress intensity factors for deep surface cracks in plates and cylinders", *ASME 2012 Pressure Vessels and Piping Conference*, 637-649, 2012.
- [82] Loboda, V. V. and Tauchert T. R., "The elastic contact problem for dissimilar orthotropic semi infinite and infinite strips", *Int. J. Engng. Sci.*, **23**, 1337-1349, 1985.
- [83] Lowengrub, M. and Sneddon, I. N., "The stress field near a Griffith crack at the interface of two bonded dissimilar elastic half planes", *Int. J. Engng. Sci.*, **11**, 1025-1034, 1973.
- [84] Lowengrub, M. and Srivastava, K. N., "Two coplanar Griffith cracks in an infinitely long elastic strip", *Int. J. Engng. Sci.*, **6**, 425, 1968.
- [85] Ma, L., Wu, L. Z., Guo, L. C., and Zhou, Z. G., "Dynamic behavior of a finite crack in the functionally graded materials", *Mech. Mat.*, **37**, 1153-1165, 2005.
- [86] Melville, P. H., "Crack propagation and crack arrest in stress gradients", *Int. J. Fract.*, **13**, 165-181, 1977.

- 
- [87] Misra, A. and Sukere, A. A., "Microcrack toughening in particulate composites", *Int. J. Fract.*, **52**, 37-44, 1991.
- [88] Mukherjee, S. and Das, S., "Interaction of three interfacial Griffith cracks between bonded dissimilar orthotropic half planes", *Int. J. Solids Struct.*, **44**, 5437-5446, 2007.
- [89] Mukherjee, S. and Das, S., "Moving interfacial Griffith crack between bonded dissimilar Media", *J. Appl. Math.*, **3**, 289-299, 2005.
- [90] Muskhelishvili, N. I., "Some basic problems of the mathematical theory of elasticity", Noordhoff, Groningen, 1953.
- [91] Mukhopadhyay, S. and Kumar, R., Analysis of phase-lag effects on wave propagation in a thick plate under axisymmetric temperature distribution, *Acta Mech.*, **210**, 331-344, 2010.
- [92] Nisitani, H. and Murakami, Y., "Stress intensity factors of an elliptical crack or semi-elliptical crack subject to tension", *Int. J. Fract.*, **10**, 353-368, 1974.
- [93] Noda, N. and Wang, B. L., "Generalized plane problem of a cracked piezoelectric layer bonded to dissimilar layers," *Acta Mech.*, **153**, 1-13, 2002.
- [94] Noda, N., Hetnarski, R. B. and Tanigawa, Y., Thermal Stresses, Taylor & Francis, New York, 2003.
- [95] Nuismer, R. J., "An energy release rate criterion for mixed mode fracture", *Int. J. Fract.*, **11**, 245-250, 1975.
- [96] Okada, H., Koya, H., Kawai, H. and Li, Y., "Computations of stress intensity factors for deep cracks in plates by using the tetrahedral finite element", *ASME 2012 Press.Vessels and Piping Conf.*, 687-694, 2012.
- [97] Okada, H., Koya, H., Kawai, H., Li, Y. and Osakabe, K., "Computations of stress intensity factors for semi-elliptical cracks with high aspect ratios by using the tetrahedral finite element", *Engng. Fract. Mech.*, **158**, 144-166, 2016.
- [98] Orowan, E., "Energy criteria of fracture", *Weld. J.*, **34**, 157-160, 1955.
- [99] Palaniswamy, K., "Crack propagation under general in plane loading", Ph. D. Thesis, California institute of technology 1972.
- [100] Parihar, K. S. and Sowdamini, S., "Three collinear cracks in an infinite elastic medium", *Int. J. Engng. Sci.*, **23**, 151-161, 1985.
- [101] Petrova, V., Tamuzs, V. and Romalis, N., "A survey of macro-microcrack

- interaction”, *Appl. Mech. Rev.*, **53**, 117–146, 2000.
- [102] Piva, A., “An alternative approach to elasto-dynamic crack problems in an orthotropic medium”, *Q. Appl. Math.*, **45**, 97-104, 1987.
- [103] Piva, A and Viola, E., “Crack propagation in an orthotropic medium”, *Engng. Fract. Mech.*, **29**, 535-548, 1988.
- [104] Priest, A. H., “An energy balance in crack propagation and arrest”, *Engng. Fract. Mech.*, **61**, 231-251, 1998.
- [105] Rice, J. R. and Sih, G. C., “Plane problems of the cracks in dissimilar media”, *Int. J. Appl. Mech.*, **32**, 418-432, 1965.
- [106] Rice, J. R., “A path independent integral and the approximate analysis of strain concentration by notches and cracks”, *Trans. ASME J. Appl. Mech.*, **35**, 379-386, 1968.
- [107] Rizza, R., “A note on the impact response of a cracked orthotropic material”, *Int. J. Fract.*, **124**, 119–126, 2003.
- [108] Rose, L. R., “Microcrack interaction with a main crack”, *Int. J. Fract.*, **31**, 233-242, 1986.
- [109] Rubinstein, A., “Macro-crack interaction with semi infinite micro-crack array”, *Int. J. Fract.*, **27**, 113-119, 1985.
- [110] Rubinstein, A., “Macro-crack-micro defect interaction”, *J. Appl. Mech.*, **53**, 505-510, 1986.
- [111] Rubio-Gonzalez, C. and Mason, J. J., “Mixed mode dynamic stress intensity factor due to applied point loads”, *Comput. Struct.*, **76**, 237-245, 2000.
- [112] Sadowski, T., Marsavina, L., Craciun, E. M. and Kneć, M., “Modelling and experimental study of parallel cracks propagation in an orthotropic elastic material”, *Int. J. Comput. Mater. Sci.*, **52**, 231–235, 2012.
- [113] Saha, T. K., Chatterjee, M. and Roy, A., “Interaction between coplanar elliptic cracks-II shear loading”, *Int. J. Solids Struct.*, **36**, 619-637, 1999.
- [114] Satapathy, P. K. and Parhi, H., “Stresses in an orthotropic strip containing a Griffith crack”, *Int. J. Engng. Sci.*, **16**, 147-154, 1978.
- [115] Sekine, H., “Thermal stresses near tips of an insulated line crack in semi-infinite medium under uniform heat flow”, *Engng. Fract. Mech.*, **9**, 499-507, 1977.



- 
- [116] Sekine, H., "Thermo-elastic interaction between two neighboring cracks", *Trans. Jpn. Soc. Mech. Eng.*, **45**, 1058-1063, 1979.
- [117] Sharma, B., "Thermal stresses in transversely isotropic semi-infinite elastic solids", *J. Appl. Mech.*, **25**, 86-88, 1958.
- [118] Shindo, Y., Nozaki, H. and Higaki, I. L., "Impact response of a finite crack in an orthotropic strip", *Acta Mech.*, **62**, 87-104, 1986.
- [119] Sih, G. C. and Chen, E. P., "Cracks in composite materials", *Springer*, The Hague, 1978.
- [120] Sih, G. C., "Crack on bi-material interfaces: elasticity and plasticity aspects", *Mater. Sci. Eng. A*, **143**, 77-90, 1991.
- [121] Sih, G. C., "On the singular character of thermal stresses near a crack", *J. Appl. Mech.*, **29**, 587-589, 1962.
- [122] Sih, G. C., "Strain energy density factor applied to mixed mode crack problems", *Int. J. Fract.*, **10**, 305-322, 1974.
- [123] Sills, L. B. and Dolev, O., "The conservative  $M$ -integral for thermal-elastic problems", *Int. J. Fract.*, **125**, 149-170, 2004.
- [124] Sneddon, I. N. and Lowengrub, M., "Crack problems in the classical Theory of elasticity", John Wiley & Sons, New York, 1969.
- [125] Sur, A. and Kanoria, M., "Fractional heat conduction with finite wave speed in a thermo-visco-elastic spherical shell", *Lat. Am. J. Solids Struct.*, **11**, 1132-1162, 2014.
- [126] Sweeney, J., "Stress intensity for an edge crack in a semi-infinite orthotropic body", *Int. J. Fract.*, **37**, 233-241, 1988.
- [127] Tanaka, S., Sannomaru, S., Imachi, M., Hagihara, S., Okazawa, S. and Okada, H., "Analysis of dynamic stress concentration problems employing spline-based wavelet Galerkin method", *Eng. Anal. Bound. Elem.* **58**, 129-139, 2015.
- [128] Tan, C. L. and Gao, Y. L., "Boundary integral equation fracture mechanics analysis of plane orthotropic bodies", *Int. J. Fract.*, **53**, 343-365, 1992.
- [129] Thakur, P., "Steady thermal stress and strain rates in a circular cylinder with homogeneous compressibility subjected to thermal load", *Therm. Science*, **18**, Suppl.1, S81-S92, 2014.

- [130] Thakur, P., "Steady thermal stress and strain rates in a rotating circular cylinder under steady state temperature", *Therm. Science*, **18**, Suppl. 1, S93-S106, 2014.
- [131] Tranter, C. J., "The opening of a pair of coplanar Griffith cracks under internal pressure", *Q. J. Mech. Appl. Math.*, **14**, 283-292, 1961.
- [132] Tupholme, G. E., "A study of cracks in orthotropic crystals using dislocation layers", *J. Engng. Maths.*, **8**, 57- 69, 1974.
- [133] Ueda, S., "On some numerical inversion Methods of the Laplace Transform", *Bull. Edu. Fac., Shizuoka Univ. Natural Sci.*, **38**, 97-105, 1988.
- [134] Viola, E. and Piva, A., "Effect of orthotropy on elasto-dynamic crack behaviour", *Proc. VIII AIMETA*, Torino, **1**, 155, 1986.
- [135] Viola, E., Piva, A. and Radi, E., "Crack propagation in an orthotropic medium under general loading", *Engng. Fract. Mech.*, **34**, 1155-1174, 1989.
- [136] Wang, B. L., Han, J. C. and Du, S. Y., "Cracks problem for non-homogeneous Composite material subjected to dynamic loading", *Int. J. Solids Struct.*, **37**, 1251-1274, 2000.
- [137] Wells, A. A., "Application of fracture mechanics at and beyond general yielding", *Br. Weld. J.*, **10**, 563-570, 1963.
- [138] Wells, A. A., "Unstable crack propagation in metals: cleavage and fast fracture", *Proc. CPS*, Cranfield, **1**, 210-230, 1961.
- [139] Westergaard, H. M., "Bearing pressure and cracks", *J. Appl. Mech.*, **6**, 49-53, 1939.
- [140] Williams, M. L., "The stress around a fault or crack in dissimilar media", *Bull. Seismol. Soc. Amer.*, **49**, 199-204, 1959.
- [141] Wu, X. F., Dzenis, Y. A. and Zou, W. S., "Interfacial edge crack between two bonded dissimilar orthotropic strips under antiplane point loading", *ZAMM-Z. Angew. Math. Me.*, **83**, 419-422, 2003.
- [142] Yoffe, E. H., "The moving Griffith crack", *Philos. Mag.*, **42**, 739-750, 1951.
- [143] Yum, Y. J. and Hong, C. S., "Stress intensity factors in finite orthotropic plates with a crack under mixed mode deformation", *Int. J. Fract.*, **47**, 53-63, 1991.
- [144] Zhang, H. C., Tan, W. and Li, Y. D., "Effect of the transitional gradient of material property on the mechanical behavior of a non-homogeneous inter layer", *Comput. Mater. Sci.*, **42**, 122-129, 2008.

- [145] Zhong, X. C., Wua, B. and Zhang, K. S., “Thermally conducting collinear cracks engulfed by thermo-mechanical field in a material with orthotropy”, *Theor. Appl. Fract. Mech.*, **65**, 61-68, 2013.
- [146] Zhou, Y. T., Li, X. and Qin, J. Q., “Transient thermal stress analysis of orthotropic functionally graded materials with a crack” *J. Therm. Stresses*, **30**, 1211-1231, 2007.
- [147] Zhu, Z. W., Ma, Y., Zhang, H.-D., Song, W. D., and Gan, Y. C., “Evaluation of thermal effects and strain rate sensitivity in frozen soil”, *Therm. Science*, **18**, 1631-1636, 2014.
- [148] Zinno, A., Fusco, E., Prota, A. and Manfredi, G., “Multiscale approach for the design of composite sandwich structures for train application”, *Compos. Struct.*, **92**, 2208-2219, 2010.