

BIBLIOGRAFIE

1. Argoitia A., ș.a., "Microstructure and Elastic Properties of Sintered Cerium Oxides", In: High Tech Ceramics, part B, pg. 1381-1389, Amsterdam, 1987
2. ASTM, "Fracture Testing of High-Strength Sheet Materials - First Report of a Special ASTM Committee", ASTM Bulletin, N 243, January 1960: 29-40, and N 244, February 1960: 18-28, 1960
3. ASTM, "The slow growth and rapid propagation of cracks - Second Report of a Special ASTM Committee", Materials Research and Standards, 1(5): 389-393, 1961
4. ASTM, "Fracture testing of high-strength sheet materials - Third Report of a Special ASTM Committee", Materials Research and Standards, 11(11): 877-885, 1961
5. ASTM, "Screening tests for high-strength alloys using sharply notched cylindrical specimens - Fourth Report of a Special ASTM Committee", Materials Research and Standards, 2(3): 196-203, 1962
6. ASTM, "Progress in measuring fracture toughness and using fracture mechanics - Fifth Report of a Special ASTM Committee", Materials Research and Standards, 4(3): 107-119, 1964
7. ASTM, "Fracture toughness and its applications", ASTM STP 381, Philadelphia: ASTM, 1965
8. ASTM, "Standard test method for J_{IC} , a measure of fracture toughness", ASTM E813-81. Philadelphia: ASTM, 1981
9. ASTM, "Standard Test Method for Fracture Toughness of Metallic Materials", Philadelphia: ASTM, 1983
10. ASTM, "Standard Test Method for Determining J-R Curves", Philadelphia: ASTM, 1987
11. ASTM, "Standard Test Method for Crack Tip Opening Displacement Testing", Philadelphia: ASTM, 1989
12. Baik M. -C., ș.a., "Determination of Stress Intensity Factors by the Method of Caustics in Anisotropic Materials", In: Experimental Mechanics, pg. 137-143, June 1995
13. Baker B.R., "Dynamic stresses created by a moving crack", J. Appl. Mech, 29: 449-458, 1962
14. Bambini G.N., Bellosi A., "Correlation Between Hardness and Microstructural Parameters in Hot Pressed Silicon Nitride-Based Materials", In: High Tech Ceramics, part B, pg. 1371-1379, Amsterdam, 1987
15. Bannerman D.B. and Young R.T., "Some improvements resulting from studies of welded ship failures", Welding J. Vol.25, 1946
16. Baratta F. I., "Private Communication", ASTM Research Report RR:E24-1015, 21 Nov 1989
17. Barenblatt G.I. "On the equilibrium cracks due to brittle fracture", Doklady AN SSSR, 127: 47-50, 1959
18. Barenblatt G.I., "The mathematical theory of equilibrium cracks in brittle fracture. advances in applied mechanics", Vol. 7: 55-129, In H.L. Dryden & T. von Karman (eds), NY: Academic Press, 1962
19. Bârsănescu P.D., Goanță V. "Determinarea tensiunilor remanente în plăci din oțel prelevate din palete de turbină hidraulică " Simpozionul de Cercetare științifică feroviară, vol. II, pg. 201-206, București, 1994

20. Bărsănescu P.D., ș.a., *"Tensiuni remanente"*, Ed. "Gh. Asachi", Iași, 2003
21. Barsom J.M. & Rolfe S.T., *"Fracture and Fatigue Control in Structures"*, Englewood Cliffs, NJ: Prentice-Hall, Inc, 1987
22. Beachem C.D., Pelloux R.M.N., *"Electron-fractography - A tool for the study of micromechanisms of fracturing processes"*, In Fracture Toughness Testing and Its Applications, ASTM STP 381: 210-245, Philadelphia, PA: ASTM, 1965
23. Begley J.A., Landes J.D., *"The J-Integral as a fracture criterion"*, In ASTM STP 514, 1-20, Philadelphia, ASTM, 1972
24. Behnken H., Hank V., *"X-ray Elastic Constants, Values for Practical Stresses Analysis"*, Adv. Ceram. Mater., vol. 2, pg. 1217-1220, London, 1994
25. Berroth K., Dubendorf, *"Hochtemperaturtechnik - Keramische Werkstoffe, Integrationskonzepte, Anwendungen"*, Keramische Zeitschrift, nr. 1, pg. 19-23, nr.1, 1994
26. Bilby B.A., Swinden K.H., *"Representation of plasticity at notches by linear dislocation arrays"*, Proc. Roy. Soc. London, A, 285, 1965
27. Bilby B.A., Cottrell A.H., Swinden K.H., *"The spread of plastic yield from a notch"*, Proc. Roy. Soc. London, A, 272: 304-314, 1966
28. Bluhm J., *"Slice Synthesis of a Three Dimensional Work of Fracture Specimen for Brittle Materials Testing"*, In: Engineering Fracture Mechanics, vol. 7, pg. 593, 1985
29. Bowie O.L., *"Analysis of an infinite plate containing radial cracks originating at the boundary of an internal circular hole"*, J. Math. Phys., 35(1): 60-71, 1956
30. British Standard, *"Methods for Crack Opening Displacement (COD) Testing"*, British Standards Institution, BS 5762, 1979
31. Broberg K.B., *"The propagation of a brittle crack"*, Arkiv för Fysik, 18: 159-192, 1960
32. Broek D., *"Elementary Engineering Fracture Mechanics"*, Columbus, Ohio, USA, 1978
33. Brown B.F., Beachem C.D., *"A study of the stress factor in corrosion cracking by use of the pre-cracked cantilever beam specimen"*, Corrosion Science, 5: 745-750, 1965
34. Brown W. F., Jr., Srawley J. E., *"Plane Strain Crack Toughness, Testing of High Strength Metallic Materials"*, ASTM STP 410, 1966
35. Brown W.F., Lubahn J.D., Ebert L.J., *"Effects of section size on the static notch bar tensile properties of mild steel plate"*, Welding J, 26: 554, 1947
36. Burdekin F.M., Daws M.G., *"Practical use of linear elastic and yielding fracture mechanics with particular reference to pressure vessels"*, In Proc. Inst. Mech. Eng., Conf. London: 28, 1971
37. Burdekin F.M., Stone D.F.W., *"The crack opening displacement approach to fracture mechanics in yielding materials"*, J. Strain Analysis, 1: 145-153, 1966
38. Buresch F.E., Meyer W., *"Relation between microstructure and Weibull distribution function of coarse grained Ceramics"*, In: High Tech Ceramics, part B, pg. 1197-1208, Amsterdam, 1987
39. Buresch I., *"Formation and Effect of Fabrication and Deformation Induced Residual Stresses in Simple Ceramic Components"*, Adv. Ceram. Mater., vol. 2, pg. 1237-1245, London, 1994
40. Busche M.J., Hsia K.J., *"Fracture and Domain Switching by Indentation in Barium Titanate Single Crystals"*, Scripta Materialia, nr. 44, pg. 207-212, 2001
41. Carroll D.F., Tressler R.E., *"Time Dependent Mechanical Behaviour of Silicon Carbide Ceramics at Elevated Temperature"*, In: High Tech Ceramics, part B, pg. 1335-1344, Amsterdam, 1987

42. Cheng W., Cheng H.S., "Surface Crack Initiation Under Contact Fatigue: Experimental Observation and Contact Analysis", ASME, pg. 658-665, -Oct. 1993
43. Cherepanov G.P., "On Crack Propagation in Continuum", Prikl. Math. Mekh., 31(3): 476-493, 1967
44. Cherepanov G.P., "Brittle Fracture Mechanics", M: Nauka, 1974
45. Cho K., Bar-On I., "Crack-stability and Fracture Toughness of Ceramic Bend Bars with a Modified Circular Cross Section", Experimental Mechanics, pg. 104-111, June 1995
46. Cioclov D., "Mecanica ruperii materialelor", Editura Academiei, București, 1977
47. Conrad H., Sargent G. A., "To Establish a Standard ASTM Method for Fracture Toughness Testing of Beryllium," NASA Grant NSG3013, , ASTM Research Report No. RR:E24-1005, Oct. 1977
48. Conrad H., Sargent G. A., Brown W. F., Jr., "A Joint Fracture Toughness Evaluation of Hot Pressed Beryllium", Beryllium Conference, The Royal Society, London, Paper 21, 1977
49. Cotterell B., Kaminga J., "Mechanics of Pre-industrial Technology", Cambridge Univ. Press, 1990
50. Coulomb C.A., "Sur une Application des Regles de Maximis et Minimis a quelques Problemes de Stateque, Relatifo a l'Architecture", Memoires de Mathematique et de Physique, Academic Royaldes Sciences per diversa Savane Anne 1773 Paris, France, 1776
51. da Vinci L., (date unknown), "Codice Atlantico", folio 82 recto-b
52. Dally J.W., Sanford J.R., "Strain-gage methods for measuring the opening-mode stress intensity factor K_I ", Experimental Mechanics, 27(4): 381-388, 1987
53. Davidenkov N.N., "Selected Transactions", (2 volumes), Kyiv: Naukova Dumka, 1981
54. Davidenkov N.N., Shevandin E., Wittmann F., "Influence of size on the brittle strength of steels", Amer. Soc. Mech. Eng., 69: A63, 1947
55. Dinescu R., Surdeanu T., "Ceramica din oxid de aluminiu", Editura Tehnică, București, 1979
56. Docherty J.G., "Bending tests on geometrically similar notched bar specimens", Engineering, 133: 645-647, 1932
57. Docherty J.G., "Slow bending tests on large notched bars", Engineering, 139: 211-213, 1935
58. Dodds R.H., "Finite Element and Experimental Evaluation of the J-Integral for Short Crack", In: Fracture Mechanics, 4-th Symposium, vol. I, Theory and Analysis, 1983
59. Dubourg M.C., Villechaise B., "Analysis of Multiple Fatigue Cracks - part I". Theory Journal of Tribology, pg. 455-461, July 1992
60. Dugdale D.S., "Yielding of steel sheets containing slits", J. Mech. Phys. Solids, 8: 100-104, 1960
61. Dumitru I., Marșavina L., "Elemente de mecanica ruperii" -curs- Univ. "Politehnica" Timișoara, 2000
62. Elam C.F., "Distortion of Metals", Oxford Univ. Press, 1936
63. EPRI, "Methodology for Plastic Fracture", EPRI NP-1735, RP 601-2, March 1981
64. Erdogan F., Sih G.C., "Stress analysis of cracks", ASTM STP 381:30-83, 1965
65. Erdogan F., "Crack propagation theories", In H. Liebowitz (ed.), Fracture, Vol. II: 497-590, NY: Academic, 1968
66. Ernst H.A., "Material resistance and instability: Beyond J-controlled crack growth", ASTM-STP 803; I-191-213, American Society for Testing and Materials, Philadelphia, 1983

67. Eshelby J.D., "On the force on an elastic singularity", Proc. Roy. Soc., 244A: 87-112, 1951
68. Eshelby J.D., Frank F.C., Nabarro F.R.N., "The equilibrium of linear arrays of dislocations", Phil. Mag., 42: 351, 1951
69. Fantozzi G., "Rupture de Matériaux", INSA, Lyon, 1992
70. Ferney B.D., Hsia K.J., "The Influence of Multiple Slip Systems on the Brittle-Ductile Transition in Silicon", Materials Science and Engineering, nr. A272, pg. 422-430, 1999
71. Fisher D. M., Repko A. J., "Note on Inclination of Fatigue Cracks in Plane Strain Fracture Toughness Test Specimens," Materials Research and Standards, ASTM, Vol 9, No. 4, April 1969
72. Fisher D. M., Bubsey R. T., Srawley J. E., "Design and Use of a Displacement Gage for Crack Extension Measurements," NASA, 1970
73. Fisher J.C., Hollomon J.H., "A statistical theory of fracture", Trans. American Inst. Mining Metallurg. Eng., 171: 546-561, 1947
74. Freund L.B., "Crack propagation in an elastic solid subjected to general loading- I. Constant rate of extension", J. Mech. Phys. Solids, 20: 129-149; II Non-uniform rate of extension, 20: 141-152, 1972
75. Freund L.B., "Crack propagation in an elastic solid subjected to general loading. - III Stress wave loading", J. Mech. Phys. Solids, 21: 47-61, 1973
76. Freund L.B., "Crack propagation in an elastic solid subjected to general loading. - IV Obliquely incident stress pulse", J. Mech. Phys. Solids, 22: 137-146, 1974
77. Freund L.B., "Dynamic crack propagation", In The Mechanics of Fracture: pp.105-134, New York: ASME, 1976
78. Fridman Ya.B., Morozov E.N., "On the variational principles of mechanical fracture", Izv. vuzov. Mashinostroyenie, 4: 56-71, 1962
79. Furguele F., Lamberti A., Poggialini A., "Monitoring of Biaxial Tests of Ceramic Materials by Digital Speckle Interferometry", Experimental Techniques, pg. 15-19, Sept./Oct. 1995
80. Gölner S., "Textbook of Fracture and Assessment Criteria in The Science of the Strength of Materials", Fachbuchverlag, Leipzig-Köln, 1992
81. Galilei G., "Discorsi e Dimostrazioni Matematiche Sopra due Nuove Scienze" (ed. Elsevini, Leiden), 1638
82. Gavnigan T.H., Queeney R.A., "Theoretical Fracture Resistance of Particle-Hardened Brittle Solids", Fracture Mechanics. Theory and analysis, pg. I.84-I.95, 1993
83. Gavnigan T.H., Steele J., "Applied Finite Element Modelling Practical Problem Solving for Engineers", Ed. Marcel Decker, New York, 1989
84. Gensamer M., "Static crack strength of metals:, Metals Progress", 38: 59, 1940
85. Ghergu N., "Industria materialelor ceramice", INID, 1989
86. Gilbert C.J., Han Y.S., s.a., "Anomalous Cycling Fatigue-Crack Propagation Behaviour of Small Cracks in Monolithic Grain-Bridging Ceramics", Ceramis International, nr. 26, pg. 721-725, 2000
87. Gnaupel-Harold T., Prask H.J., "Diffraction Elastic Constants for Arbitrary Specimen and Crystal Symmetries: Theory and Practical Consequences", in Proc. of the 6th Int. Conf. on Residual Stresses, pg. 243-250, UK, 2000
88. Goanță V. "Rezistența materialelor - noțiuni fundamentale", Editura "Gh. Asachi", Iași, 2001
89. Goanță V., "Determinări experimentale ale rezistenței la fisurare pentru materialul ceramic CER-110", Construcția de mașini, nr. 1-2, București, 1999, pg. 80-84

90. Goanță V., *"Teza de doctorat"*, Universitatea Tehnică "Gh. Asachi" Iași, 1998
91. Goanță V., Ciobanu O., *"Evaluarea tensiunii critice de fisurare prin MEF pentru un material fragil ce conține particule dispersate dure"*, Simpozionul Național de Mecanica ruperii, vol. I, Ploiești, 1995, pg. 49-54
92. Goanță V., Leon D., *"Calculul duratei de viață pentru izolatorul ceramic de tip IsNs"*, Simpozionul Național de Mecanica ruperii, Călimănești, sect. IV, pg. 4.7-4.12, 1999
93. Goanță V., Palihovici V., *"Calculation of J-Integral by the Analysis of Finite Elements"*, Buletinul Institutului Politehnic Iași, Tomul XLV(IL), fasc. 1-2, 1999, pg. 241-248
94. Goanță V., Palihovici V., *"Experimental Determination of Cracking Strength"*, Buletinul Institutului Politehnic Iași, Tomul XLV(IL), fasc. 1-2, 1999, pg. 249-256
95. Goanță V., Ungureanu N., *"Incerări mecanice ale ceramicii CER-110"*, Construcția de mașini, nr. 1-2, București, 1999, pg. 84-88
96. Goanță V., Horbaniuc D., *"Calculul probabilității de rupere la materialele fragile cu luarea în considerație a porozității"*, Construcția de mașini nr. 10, XLVI, Octombrie 1994, pg. 32-35
97. Goanță V., Palihovici V., *"Stress Analysis in the Vicinity of the Vickers Indentation for the Ceramic Materials"*, Buletinul Institutului Politehnic Iași, Tomul XLIII(XLVIII), 1997, pg. 88-93
98. Goode R. J., *"Identification of Fracture Plane Orientation"*, Materials Research and Standards, ASTM, Vol 12, No. 9, September 1972
99. Goodier J.N., *"Journal of Applied Mechanics"*, vol. 1, nr. 1, 1983
100. Green A.E., Sneddon I.N., *"The distribution of stress in the neighborhood of a flat elliptical crack in an elastic solid"*, Proc. Cambridge Philosophical Soc., 46: 159-163, 1950
101. Griffith A.A., Taylor G.I., *"The use of soap films in solving torsion problems"*, Proc. Inst. Mech. Eng., 755-809, 1917
102. Griffith A.A., *"The phenomena of rupture and flow in solids"*, Phil. Trans. Roy. Soc. London, A, 221: 163-198, 1920
103. Hahn G.T., Rosenfield A.R., *"Local yielding and extension of a crack under plane stress"*, Acta Metallurgica, 13: 293-306, 1965
104. Harmon R.A., *"Ceramics Heat Up"* In: Mechanical Engineering, nr. 5, pg. 22-35, 1984
105. Hatnaka K., Shiota H. *"Tensile Test of Sintered Silicon Nitride Ceramic at Elevated Temperatures"*, JSME Journal, pg. 351-360, nr. 6, 1991
106. Hecht A., Newman E., *"Computer-Aided Non-destructive Ultrasonic Testing of Ceramic Material"*, In: High Tech Ceramics, part B, pg. 1169-1178, Amsterdam, 1987
107. Hermanson L., Aderborn J., *"Tensile Testing of Ceramic Materials - a New Approach"*, In: High Tech Ceramics, part B, pg. 1161-1167, Amsterdam, 1987
108. Heyer R. H., McCabe D. E., *"Evaluation of a Test Method for Plane-Strain Fracture Toughness Using a Bend Specimen"*, ASTM STP 463, 1970, p. 22
109. Hooke R., *"De Potentia Restitutiva"*, London: Printed for John Martyn Printer to the Royal Society, 1678
110. Horbaniuc D., Bârsănescu P.D., Amariei N., Goanță V., *"Contribuții teoretice și experimentale la determinarea și studiul tensiunilor remanente"*, Construcția de mașini, Nr. 10, XLVI, pg. 11-15, București, 1994
111. Hoysan S. F., *"On the variability of Fracture Toughness"*, International Journal of Fracture, vol. 60, pg. R43, 1993
112. Hull D., Bacon D.J., *"Introduction to Dislocations"*, Oxford: Pergamon Press, 1992

113. Hult J.A.H., McClintock F.A., *"Elastic-plastic stress and strain distribution around sharp notches under repeated shear"*, Proc. 9th Int. Congr. Appl. Mech., Vol. VIII: 51-58. University of Brussels, 1957
114. Hutchinson J.W., Paris P.C., *"Stability analysis of J-controlled crack growth"*, ASTM STP 668: 37-64, Philadelphia: ASTM, 1979..
115. Hutchinson J.W., *"Singular behavior at the end of a tensile crack tip in a hardening material"*, J. Mech. Phys. Solids, 16: 13-31, 1968
116. Inglis C.E., *"Stresses in a plate due to the presence of cracks and sharp corners"*, Proc. Inst. Naval Arch., 55: 219-241, 1913
117. Ingraffea A.R., Blandford G.F., *"Automatic Modelling of Mixed-Mod Fatigue and Quasi-Static Crack Propagation Using the Boundary Element Method Fracture Mechanics"*, 4-th Symposium ASTM 791, 1983
118. Irwin G. R., Krafft J. M., Paris, P., Wells A. A., *"Basic Aspects of Crack Growth and Fracture"*, NRL Report 6598, Naval Research Laboratory, November 1967
119. Irwin G.R., de Wit R., *"Survey of fracture toughness testing and data with reference to meaning and application"*, Report to ASTM, Mag.Card. No 120, March, 1978
120. Irwin G.R., Kies J.A., *"Fracturing and fracture dynamics"*, Welding Journal. Res. Sup., 31(2): 95s-100s, 1952
121. Irwin G.R., Kies J.A., *"Critical energy rate analysis of fracture strength"*, Welding Journal, Res. Sup., 33(4): 193s-198s, 1954
122. Irwin G.R., Wells A.A., *"A continuous mechanics view of crack propagation"*, Metallurgical Rev., 10(38): 223-270, 1965
123. Irwin G.R., *"Fracture dynamics"*, Fracturing of Metals: 147-166, Cleveland, OH: ASM, 1948
124. Irwin G.R., *"Onset of fast crack propagation in high strength steel and aluminum alloys"*, Proc. 2nd Sagamore Conf. Ordnance Materials, Vol. II: 289-30. Syracuse, NY: Syracuse University Press, and NRL Report No. 4763 (U), May, PB121224, 1956
125. Irwin G.R., *"Relation of stresses near a crack to the crack extension force"*, Proc. 9th Int. Congr. Appl. Mech, Vol. VIII: 245-251, University of Brussels, 1957
126. Irwin G.R., *"Analysis of stresses and strains near the end of a crack traversing a plate"*, J. Appl. Mech. Trans., ASME, 24: 361-364, 1957
127. Irwin G.R., *"Fracture"*, In S.Flügge (ed.), Encyclopedia of Physics, Vol. VI - Elasticity and Plasticity: 551-590. Berlin: Springer-Verlag, 1958
128. Irwin G.R., *"Comment to a paper by Wells & Post (1958)"*, Proc. Soc. Exper. Stress Analysis, 16(1): 97-100, 1958
129. Irwin G.R., *"Plastic zone near a crack and fracture toughness"*, Proc. 7th Sagamore Research Conf.on Mechanics & Metals Behavior of Sheet Material, Vol. 4: 463-478. Racquette Lake, NY, August 1960, Proc. published by Syracuse University, 1960
130. Irwin G.R., *"Fracture of Pressure Vessels"*, In E. Parker (ed.), Materials for Missiles and Spacecraft, Chapter 7, McGraw-Hill, 1963
131. Irwin G.R., *"Constant speed semi-infinite tensile crack opened by a line force"*, Lehigh University Memorandum, 1967
132. Irwin G.R., *"Lectures Notes on Engineering Fracture Mechanics"*, University of Maryland, September 10, 1979
133. Irwin G.R., et al., *"A photoelastic characterization of dynamic fracture"*, U.S.NRC Report NUREG-0072, 1976

134. Irwin G.R., Dally J.W., Bonnenberger R.W., *"Draft of a history of fracture mechanics"*, 1992
135. Irwin G.R., Kies J.A., Smith H.L., *"Fracture strengths relative to onset and arrest of crack propagation"*, Proc. ASTM, 58: 640-657, 1958
136. Isida M., *"On the tension of a strip with a central elliptic hole"*, Trans. JSME, 21(107): 507-523, 1955
137. Isida M., *"On the tension of a semi-infinite plate with an elliptical hole"*, Trans. JSME, 22(123): 803-809, 1956
138. Isida M., *"On the in-plane bending of a strip with a central elliptical hole"*, Trans. JSME, 22(123): 809-814, 1956
139. Jansen M., Zuidema J., Wanhill R.J.H., *"Fracture Mechanics"*, 2002
140. Joffe A.F., *"Physics of Crystals"*, Gostekhizdat, 1929
141. Joffe A.F., Kirpicheva M.V., Levitskaya M.A., *"Deformation and strength of crystals"*, J. Russian Mendeleyev Phys.-Chem. Soc. Ser. Phys., 56: 489-503, 1924
142. Johnson R., *"The AGT 100 Automotive Gas Turbine"*, In: Mechanical Engineering, nr. 5, pg. 36-43, 1984
143. Johnson H.H., Willner A.M., *"Appl. Mat. Res"*, 4: 34, 1965
144. Jones, M. H., and Brown, W. F., Jr. *"The Influence of Crack Length and Thickness in Plane Strain Fracture Toughness Tests," ASTM STP 463, 1970, p. 63*
145. Jones M. H., Bubsey R. T., Brown W. F. Jr., *"Crack Toughness Evaluation of Hot Pressed and Forged Beryllium"*, Journal of Testing and Evaluation, JTEVA, Vol 1, No. 2, March 1973, pp. 100-109
146. Jones M. H., Bubsey R. T., Brown W. F., Jr., *"Clevis Design for Compact Tension Specimens Used in K_{1c} Testing"*, Materials Research and Standards, ASTM, Vol 9, No. 5, May 1969
147. Kalthoff J.F., Beinert J., Winkler S., Klemm W., *"Experimental analysis of dynamic effects in different crack arrest test specimens"*, ATM STP 711: 109-127, Philadelphia: ASTM, 1980
148. Kandil F.A., s.a., *"A Review of Residual Stress Measurement Method"*, NPL Materials Centre, 2001
149. Kapp J. A., *"Improved Wide Range Expressions for Displacements and Inverse Displacements for Standard Fracture Mechanics Specimens"*, Journal of Testing and Evaluation, JTEVA, Vol 19, No. 1, January 1991, pp. 45-54
150. Kapp J. A., Newman J. C., Jr., Underwood J. H., *"A Wide Range Stress Intensity Factor Expression for the C-Shaped Specimen"*, Journal of Testing and Evaluation, Vol 8, No. 6, November 1980, pp. 314-317
151. Kies J.A., Smith H.L., *"Toughness testing of hot-stretched acrylics"*, Proc. Aircraft Industries Association and Air Research & Development Command Joint Conference, Dayton, OH, March 1955
152. Kies J.A., Sullivan A.M., Irwin G.R., *"Interpretation of fracture markings"*, J. Appl. Phys., 21: 716-720, 1950
153. Kim H-W, Deng Y., s.a., *"Effect of Flaw State on the Strength of Brittle Coatings on Soft Substrates"*, J. Am. Ceram. Soc., pg. 2377- 2384, vol. 84, nr. 10, 2001
154. Kishimoto H., Ueno A., Kawamoto H., *"Crack Propagation Behaviour of Sintered Silicon Nitride under Cyclic Loads"*, JSME International Journal, pg. 361-366, Vol. 34, nr. 3, 1991
155. Klein V., *"Debate on approaches used in Soviet studies of crack propagation"*, Foreign Science Bulletin ONR London, 1969

156. Kobayashi H., Arai Y., Hwang S. Ch., "*Effect of Stress Corrosion Cracking on Fracture Strength of Si_3N_4* ", Adv. Ceram. Mater., vol 3, pg. 161-166, Tokyo, 1993
157. Kobayashi H., Arai Y., "*Mechanics Approach to Fracture Strength of Ceramics/Metal Joints*", Adv. Ceram. Mater., vol 3, pg. 179-184, Tokyo, 1993
158. Koiter W.T., "*An infinite row of collinear cracks in an infinite elastic sheet*", Ing. Arch., 28: 168-172, 1959
159. Kontorova T.A., Fraenkel Ya.M., "*Statistical theory of brittle strength of real crystals*", Tech. Phys., 11(3): 173-181, 1941
160. Krafft J.M., Irwin G.R., "*Crack-velocity considerations. Fracture Toughness Testing and Its Applications*", ASTM STP 381: 114-129. Philadelphia, PA: ASTM, 1965
161. Krausz A.S., Krausz K., "*On the Physical Processes of Plastic Deformation and Fracture of Ceramic Materials*", In: High Tech Ceramics, part B, pg. 1239-1245, Amsterdam, 1987
162. Kumar V., Gmerna M.D., Shih C.F., "*An engineering approach for elastic-plastic fracture analysis*", EPRI Report NP-1931, Palo Alto, CA, USA: Electric Power Research Institute, 1981
163. Laird G., Epstein J., "*Fracture Mechanics and Finite Element Analysis*", Mechanical Engineering, pg. 69-73, nov. 1992
164. Landes J.D., Begley J.A., "*A fracture mechanics approach to creep crack growth*", ASTM STP 590: 128-148, Philadelphia: ASTM, 1976
165. Lee C-H, Lawn B.R., "*Effect of Tangential Loading on critical Conditions for Radial Cracking in Brittle Coatings*", J. Am. Ceram. Soc., pg. 2719- 2721, vol. 84, nr. 11, 2001
166. Lee C-H., Kim D.K., "*Rate Effects in Critical Loads for Radial Cracking in Ceramic Coatings*", J. Am. Ceram. Soc., pg. 2019- 2024, vol. 85, nr. 8, 2002
167. Lee K.S., Lee S.K., Lawn B.R., "*Contact Damage and Strength Degradation in Brittle/Quasi-Plastic Silicon Nitride Bilayers*", J. Am. Ceram. Soc., pg. 2394- 2404, vol. 81, nr. 9, 1998
168. Lemon D. D., Brown W. F., Jr., "*Fracture Toughness of Hot Pressed Be*", Journal of Testing and Evaluation, JTEVA, Vol 13, No. 2, March 1985, p. 152.
169. Leonov M.Ya., Panasyuk V.V., "*The development of the smallest cracks in solids*", Prikladnaya Mekhanika, 5(4): 391-401, 1959
170. Lewis J. C., "*Fracture Mechanics: Theory and Analysis*", Los Angeles, USA, 1981
171. Lorentzen T., "*Bulk Residual Strain Measurements by Neutron Diffraction*", Adv. Ceram. Mater., vol 2, pg. 1207-1217, London, 1994
172. Love A.E.H., "*A Treatise on the Mathematical Theory of Elasticity*", NY: Dover Publications, 1926
173. Lu I. ş.a., "*Combination of Two Methods for Measuring the Residual Stress Gradient in SiC Reinforced Aluminium-Metal Matrix Composite*", Adv. Ceram. Mater., vol. 2, pg. 1262-1271, London, 1994
174. Ludwik P., "*Elemente der Technologischen Mechanik*", Berlin: Springer-Verlag, 1909
175. Ma Juanrong, Jin Zongzhe, "*Evaluation of Microfracture of Ceramic Microfracture Toughness*", In: High Tech Ceramics, part B, pg. 1233-1238, Amsterdam, 1987
176. Mach I., "*High Tech Ceramics*", In: Material Egge, SUA, nr 1, pg. 38-39, 1987

177. Madison R. B., Irwin G. R., "*Dynamic Kc Testing of Structural Steel*", Journal of the Structural Division, ASCE, Vol 100, No. ST 7, Proceedings paper 10653, July 1974, p. 1331
178. Maekawa I., Shin H-S., "*Particle Impact Damage on Ceramics*", Adv. Ceram. Mater., vol. 3, pg. 173-178, Tokyo, 1993
179. Maloney L., "*Noi domenii de utilizare a materialelor ceramice*", In: Des. News, SUA, nr. 6, pg. 44, 1988
180. Mariotte E., "*Traite de Mouvement des Eaux*", Paris, 1686
181. McCabe D. E., "*Evaluation of the Compact Tension Specimen for Determining Plane-Strain Fracture Toughness of High Strength Materials*", Journal of Materials, Vol 7, No. 4, December 1972, p. 449
182. McCabe D. E., "*Evaluation of the Compact Tension Specimen for Plane Strain Fracture Toughness of High Strength Materials*", Journal of Materials, Vol 7, No. 4, December 1972, p. 449
183. McClintock F.A., Irwin G.R., "*Plasticity aspects of fracture mechanics. Fracture Toughness Testing and Its Applications*", ASTM STP 381: 84-113, Philadelphia: ASTM, 1965
184. McClintock F.A., "*Plasticity aspects of fracture. In Fracture: An Advanced Treatise*", Vol.3: 47-225, Academic Press, New York, 1971
185. McMeeking R.M., Parks D.M., "*On criteria for J-dominance of crack tip fields in large-scale yielding*", ASTM STP 668: 175-194, Philadelphia: ASTM, 1979
186. Miyata H., et a., "*Application Technology on Ceramics for Structural Components of High Temperature Machines*", JSME International Journal, pg. 596-604, vol. 32, nr. 4, 1989
187. Mocanu D.R., "*Inercarea materialelor*", vol. I și II, Editura Tehnică, București, 1981
188. Mott N.F., "*Fracture of metals: Theoretical considerations*", Engineering. 165: 16-18, 1948
189. Mukhopadhyay A.K., "*High Temperature Fracture Toughness and Fractographic Study of Dense $Si_3 N_4$* ", In: High Tech Ceramics, part B, pg. 1335-1344, Amsterdam, 1987
190. Murakami Y., Matsuda K., "*Analysis of Vickers Hardness by the Finite Element Method*", In: ASME Journal, pg. 822-828, dec. 1994
191. Murakami Y., "*Stress Intensity Factors Handbook*", NY: Pergamon Press, 1987
192. Muskhelishvili N.I., "*Some Basic Problems in the Theory of Elasticity*", Noordhoff, Ltd., Netherlands, 1953
193. Nayeb-Hashemi N., "*Microhardness Indentation Application and Limitation in Fracture Toughness Evaluation of Ceramics*", In: Mechanical Engineering, nr. 12, pg. 79-84, 1993
194. Negulescu A. E., "*Materiale compozite-documentare tematică* ", INID-1989
195. Neuber H., "*Kerbspannungslehre (Theory of Notch Stresses)*", Berlin: Springer-Verlag, 1937
196. Newman J. C., "*Stress Analysis of Compact Specimens Including the Effects of Pin Loading*", ASTM STP 560, 1974, p. 105
197. Newman J. C., Jr., "*Stress Intensity Factors and Crack Opening Displacements for Round Compact Specimens*", International Journal of Fracture, Vol 17, No. 6, December 1981, pp. 567-578
198. Newuman J.C., Raju I.S., "*An Empirical Stress Intensity Factor Equation for the Surface Crack*", In: Engineering Fracture Mechanical, pg. 185-192, 1981

199. Nica Al., *"Ceramica tehnică"*, Editura Tehnică, București, 1988
200. Nikbin K.M., Webster G.A., Turner C.E., *ASTM STP 601*: 47-62, Philadelphia: ASTM, 1976
201. Obreimoff I.V., *"The splitting strength of mica"*, Proc. Roy. Soc., A127: 290-297, 1930
202. Ochi Y., Sasaki S.K. *"Effect of Vickers Indented Load and Microstructure on Hardness, Bending Strength and Fracture Toughness in Sintered Silicon Carbide Ceramics"* Adv. Ceram. Mater., vol. 3, pg. 155-160, Tokyo, 1993
203. Ohji K., Ogura K., Kubo S., *"Mechanics of creep crack propagation under longitudinal shear and its applications"*, Trans. JSME, 42(354): 350-358, 1976
204. Orange T. W., *"Some Effects of Experimental Error in Fracture Testing"*, Fracture Analysis, ASTM STP 560, 1974, pp. 122-133
205. Orowan E., *"Notch brittleness and the strength of metals"*, Transactions, Institution of Engineers and Shipbuilders in Scotland, 89: 165-215, 1945
206. Orowan E., *"Fracture and strength of solids"*, Reports on Progress in Physics, 12: 185-232, 1949
207. Orowan E., *"Energy criteria of fracture"*, Welding Journal, Res. Sup., 34(3): 157s-160s, 1955
208. Palihovici V., Aignătoaie M., Goanță V., *"Study on the Stress Distribution Round an Inner Concentration Situated Inside a Weld Bead"*, Experimental Stress Analysis, pg. 193-198, June 4, Olomuc, 1997
209. Palihovici V., Goanță V., Mocanu F., *"Determination of Residual Stresses in Ceramic Materials by Ultrasonic Hole-Drilling"*, 17th Danubia-Adria Symposium - on Experimental Methods in Solid Mechanics, October, 2000, pg. 243-246
210. Palihovici V., Goanță V., *"The Fracture Behaviour of CER-110 Ceramic"*, Buletinul Institutului Politehnic Iași, Tomul XLIV(XLVIII), fasc. 1-2, 1998, pg. 63-70
211. Pană T., *"Mecanica ruperii materialelor"*, Editura T. Pană, București, 1992
212. Panasyuk V.V., Berezhnitsky L.T., *"Determination of limiting force under the tension of a plate containing arc-type crack"*, In Voprosy Mekhaniki Tverdogo Tela, 3: 3-19. Kiev: Naukova Dumka, 1964
213. Panasyuk V.V., *"On the theory of crack propagation during brittle body deformation"*, Dop. AN Ukr.RSR, 9: 1185, 1960
214. Panasyuk V.V., *"Limiting Equilibrium of Brittle Solids with Fractures"*, Kyiv: Naukova Dumka, 1968
215. Panasyuk V.V., *"Materials Quasi-Brittle Fracture Mechanics"*, Kyiv: Naukova Dumka, 1991
216. Panasyuk V.V., *"An outline of the development of fracture mechanics and strength of materials investigations"*, In O.M. Romaniv & S.Ya. Yarema (eds), Fracture Mechanics, Strength and Integrity of Materials, Jubilee Book devoted to V.V. Panasyuk. Lviv, Ukraine: Shevchenko Scientific Society, 1996
217. Paris P.C., Hermann L., *"Twenty years of reflection on questions involving fatigue crack growth. Part I: Historical observations and perspectives; Part II (with L. Hermann. Some observations of crack closure"*, In Proc.Int.Conf. on Fatigue Thresholds: Fundamentals and Engineering Applications, Vol.1: 3-32, EMAS, 1981
218. Paris P.C., Sih G.C., *"Stress analysis of cracks. Fracture Toughness Testing and Its Applications"*, ASTM STP 381: 30-83, Philadelphia: ASTM, 1965
219. Paris P.C., *"CSNI specialists meeting on plastic tearing instability"*, Proc. US NRC NUREG/CP-0010, CSNI Report No 39, 1979
220. Paris P.C., *"Reflections on progress in fracture mechanics research"*, ASTM STP 1207: 5-17, 1995

221. Paris P.C., Gomez R.E., Anderson W.E., "A rational analytic theory of fatigue. *The Trend in Engineering*", 13(1): 9-14, University of Washington, 1961
222. Parton V.Z., Boriskovsky V.G., "Dynamic Fracture Mechanics", M.: Nauka, 1985
223. Peterson R.E., "Stress Concentration Factors", NY: J. Wiley & Sons, 1974
224. Pfeiffer W., "Influence of Machining-Induced Residual Stresses on the Strength of Ceramics", Adv. Ceram. Mater., vol. 2, pg. 827-833, London, 1994
225. Pfeiffer W., Frey T., "Shot peening of ceramics: damage or benefit?", in Jahrestagung der D&G, pg. 1-11, Bayreuth, 2001
226. Pfeiffer W., Hollstein T., "Characterisation and Assessment of Machined Ceramic Surfaces", In: Interceram, vol. 46, nr. 2, pg. 98-104, 1997
227. Pfeiffer W., Hollstein T., "Influence of Grinding Parameters of Strength-Dominating Near Surface Characteristics of Silicon Nitride", Journal of the European Ceramic Society, vol. 17, pg. 487-494, 1997
228. Phani K.L., Niyogi S.K., "Elastic Modulus-Porosity Relationship in Brittle Solids", In: High Tech Ceramics, part B, pg. 1391-1403, Amsterdam, 1987
229. Ponomariov D., ș.a., "Calculul de rezistență în construcția de mașini", vol II, Editura Tehnică, București, 1964
230. Post D., "Photoelastic stress analysis for an edge crack in a tensile field", Proc. Soc. Exp. Stress Anal., 12(1): 99-116, 1954
231. Prandtl L., "Zeitschrift für Physik", Vol.4, 1903
232. Prandtl L., "Verhandlungen deutscher Naturforscher und Ärzte", Dresden, 1907
233. Prandtl L., "Seminar on the theory of elasticity in Göttingen in 1909", ZAMM, 8: 85-106, 1928
234. Prauckevicius G., "Prediction of Strength and Fracture Toughness of Ceramics", In: High Tech Ceramics, part B, pg. 1271-1274, Amsterdam, 1987
235. Preda M., "Metode de analiză și control în industria produselor ceramice", Editura Tehnică, București, 1977
236. Prevey P., "A Method of Determining the Elastic Properties of Alloys in Selected Crystallographic Directions for X-ray Diffraction Residual Stress Measurements", Advances in X-ray Analysis, vol. 20, pg. 345-354, New York, 1977
237. Prevey P., "Current Applications of X-ray Diffraction Residual Stress Measurements", ASM International, Materials Park, pg. 103-110, 1996
238. Prevey P., "X-ray Diffraction Characterisation of Residual Stresses Produced by Shot Peening, - Theory and Application", series ed. A, pg. 81-93, France, 1990
239. Priest M., "An Assessment of Residual Stresses Measurements Around Cold-worked Holes", Experimental Mechanics, pg. 361-366, dec. 1995
240. Quin G., "Hardness Testing of Ceramics", Advances Materials and Processes, vol. 154, nr. 2, 1998
241. Raju I.S., Newman J.C., "Stress Intensity Factors for a Wide Range of Semi-elliptical Surface Cracks in Finite-Thickness Plates", In: Engineering Fracture Mechanics, vol. 7, pg. 593-595, 1985
242. Rao M. P., ș.a., "Laminar Ceramics that Exhibit a Threshold Strength", Material Science Reports, vol. 286, pg. 102-105, 1999
243. Reynier B., Chappuis G., "X-ray Diffraction Study of the Fatigue Behaviour of a Shot-peened Aluminium-lithium Alloy", Experimental Mechanics, pg. 112-118, June 1995

- 244. Rice J.R., Rosengren G.F., *"Plain strain deformation near a crack tip in a power law hardening material"*, J. Mech. Phys. Solids, 16: 1-12, 1968
- 245. Rice J.R., *"A path independent integral and the approximate analysis of strain concentration by notches and cracks"*, J. Appl. Mech., 35: 379-386, 1968
- 246. Riedel H., Rice J.R., *"Tensile cracks in creeping solids"*, ASTM SPT 700: 112-130, Philadelphia: ASTM, 1980
- 247. Riedel H., *"Creep deformation at crack tips in elastic-viscoplastic solids"*, J. Mech. Phys. Solids, 29: 35-49, 1981
- 248. Riedel H., *"Creep crack growth"*, ASTM STP 1020: 101-126, Philadelphia: ASTM, 1989
- 249. Rizzi S.A., Doyle J.F., *"A Simple High - Frequency Force Transducer"*, Experimental Mechanics, pg. 45-49, July-august 1990
- 250. Rossmann H.P., *"An introduction to K.Wieghardt's historical paper 'On splitting and cracking of elastic bodies'"*, Fatigue and Fract. Engng. Mater. Struct., 12(12): 1367-1369, 1995
- 251. Rossmann H.P., *"Teaching and Education in Fracture and Fatigue"*, E&FN SPON (an imprint of Chapman & Hall), London, 1996
- 252. Routschka G., *"Beitrag zum Einfus des Kornaufbaus auf die Porengroße Feuerfester Steine"*, Keramische Zeitschrift, nr. 8, pg. 536-540, 1994
- 253. Rusu O., Teodorescu M., *"Oboseala metalelor"*, vol. I și II, Editura Tehnică, București, 1992
- 254. Sachs G., *"Some fundamentals of the flow and rupture of metals"*, Trans. Amer. Inst. Mining and Metallurgical Eng., 143: 13-29, 1941
- 255. Sack R.A., *"Extension of Griffith's theory of rupture to three dimensions"*, Proc. Phys. Soc. London, 58: 729-736, 1946
- 256. Sadowsky M.A., Sternberg E., *"Stress concentration around a triaxial ellipsoidal cavity"*, J. Appl. Mech. Trans. ASME, 16: 149-157, 1949
- 257. Schapery R.A., *"A theory of crack initiation and growth in viscoelastic media - I. Theoretical development"*, Int. J. Fract. 11: 141-159; II- Approximate methods of analysis, 11: 369-388; III- Analysis of continuous growth. 11: 549-562, 1975
- 258. Schapery R.A., *"Correspondence principles and a generalised J Integral for large deformation and fracture analysis of viscoelastic media"*, Int. J. Fract., 25: 195-223, 1984
- 259. Schapery R.A., *"On some path independent integrals and their use in fracture of nonlinear viscoelastic media"*, Int. J. Fract., 42: 189-207, 1990
- 260. Schubert U., Hüsing N., *"Synthesis of Inorganic Materials"*, Ed. Wiley-VCH, Germany, 2000
- 261. Segedin C.M., *"Note on a penny-shaped crack under shear"*, Proc. Cambridge Philosophical Soc., 47: 396-400, 1951
- 262. Shabbits W.O., Logsdon, W.A., *"S-200 Grade Beryllium"*
- 263. *"Fracture Toughness Properties," Journal of Testing and Evaluation*, JTEVA, Vol 1, No. 2, March 1973, pp. 110-118
- 264. Sharma V., Nemat-Nasser S., Vecchio K.S., *"Dynamic-compression Fatigue of Hot-pressed Silicon-nitride"*, Experimental Mechanics, pg. 315-322, dec. 1994
- 265. Shaw D., Chey H.Y., *"A Finite Element Technique to Analyse the Data Measured by the Hole-Drilling Method"*, Experimental Mechanics, pg. 120-123, June 1990

-
266. Shearin P.E., Ruark A.E., Trimble R.M., *"Size effects in steels and other metals from slow notch bend tests"*, Fracturing of Metals: 167-188, Cleveland, OH: ASM, 1948
267. Shih C.F., German M.D., *"Requirement for a one-parameter characterization of crack tip fields by the HRR singularity"*, Int. J. Fract., 17: 27-43, 1981
268. Shih C.F., Hutchinson J.W., *"Fully plastic solutions and large-scale yielding estimates for plane stress crack problems"*, J. Eng. Mat. Techn., 98: 289-295, 1976
269. Shih C.F., *"Relationship between the J-Integral and the crack opening displacement for stationary and extending cracks"*, J. Mech. Phys. Solids, 29: 305-326, 1981
270. Shoemaker A. K., Seeley R. R., *"Summary Report of Round-Robin Testing by the ASTM Task Group E24.01.06 on Rapid Loading Plane-Strain Fracture Toughness K_{Ic} Testing"*, Journal of Testing and Evaluation, JTEVA Vol 11, No. 4, July 1983 pp. 261-272
271. Sih G.C., Wei R.P., Erdogan F., *"Linear Fracture Mechanics. Historical Developments and Applications of Linear Fracture Mechanics Today"*, Envo Publishing Company, Inc., 1975
272. Sinclair G., *"Structural Reliability Through Fracture Mechanics"*, In: Mechanical Engineering, nr. 6, pg. 79-84, 1993
273. Sines G., Taira T., *"The Degradation of Tensile Strength of Ceramics from Prior Compression"*, In: High Tech Ceramics, part B, pg. 1187-1195, Amsterdam, 1987
274. Skilton P.J., *"Pamphlet on the Kirkaldy Testing Museum"*, (Southwark), 1987
275. Sneddon I.N., Elliott H.A., *"The opening of a Griffith crack under internal pressure"*, Quart. Appl. Math., 4: 262-267, 1946
276. Sneddon I.N., *"The distribution of stress in the neighborhood of a crack in an elastic solid"*, Proc. Roy. Soc. London, A, 187: 229-260, 1946
277. Sneddon I.N., *"Crack problems in the mathematical theory of elasticity"*, Report No ERD-126/1 of the North Carolina State College, May 15, 1961
278. Speidel M.O., *"Theory of stress corrosion cracking in alloys"*, In J.C. Scully (ed.), NATO Scientific Affair Division, Brussels, 345-354, 1971
279. Srawley J. E., *"Wide Range Stress Intensity Factor Expressions for ASTM E399 Standard Fracture Toughness Specimens"*, International Journal of Fracture, Vol 12, June 1976, p. 475
280. Srawley J. E., Jones M. H., Brown W. F., Jr., *"Determination of Plane Strain Fracture Toughness"*, Materials Research and Standards, ASTM, Vol 7, No. 6, June 1967, p. 262
281. Srawley, J. E.. "Plane Strain Fracture Toughness," *Fracture*, Vol 4, Ch.2, p. 45-68.
282. Srawley J.E., Brown W.F., *"Fracture toughness testing methods. Fracture Toughness Testing and Its Applications"*, ASTM STP 381: 133-198, Philadelphia: ASTM, 1965
283. Stanton T.E., Batson R.G.C., *"On the characteristics of notched-bar impact tests"*, Minutes of Proc. Inst. Civil Eng., 211: 67-100, 1921
284. Steigerwald E.A., *"Proceedings of ASTM"*, 60: 750, 1960
285. Suzuki A., Natsumura T., *"Particle Impact Damage in Silicon Carbide"* Adv. Ceram. Mater., vol. 3, pg. 167-172, Tokyo, 1993
-

286. Tada H., Paris P. C., Irwin G. R., "*The Stress Analysis of Cracks Handbook*," Del Research Corporation, Hellertown, PA, 1973
287. Tada H., Paris P.C. Irwin G.R., "*The Stress Analysis of Cracks Handbook*", Hellertown, PA: Del Research Corporation, 1973
288. Tanaka K., "*Elastic/Plastic Hardness and Indentation Fracture Toughness*", In: Journal American Ceramic Society, pg. 533-538, 1987
289. Teoreanu I., Ciocea N., Bărbulescu A., Ciontea N., "*Tehnologia produselor ceramice și refractare*", Vol. I și II, Editura Tehnică, București, 1985
290. Tiffany C.F., Masters J.N., "*Applied fracture mechanics. Fracture Toughness Testing and Its Applications*", ASTM STP 381: 249-278, Philadelphia: ASTM, 1965
291. Timoshenko S.P., "*History of Strength of Materials*", NY: McGraw-Hill Inc. 1953
292. Tipper C.F., "*The Brittle Fracture Story*", Cambridge Univ. Press, 1962
293. Todhunter I., Pearson K., "*History of the Theory of Elasticity and of the Strength of Materials*", Cambridge University Press, UK, 1886
294. Uccelli A., "*Leonardo da Vinci*", NY: Reynal & Co., 1956
295. Underwood J. H., Kendall D. P., "*Cooperative Plane Strain Fracture Toughness Tests with C-Shaped Specimen*", Journal of Testing and Evaluation, Vol 6, No. 5, September 1978, p. 296
296. Underwood J. H., Newman J.C., Jr., Seeley R.R., "*A Proposed Standard Round Compact Specimen for Plane Strain Fracture Toughness Testing*", Journal of Testing and Evaluation, Vol 8, No. 6, November 1980, p. 308–313
297. Underwood J. H., "*Proposed Standard Arc-Bend Chord-Support Fracture Toughness Specimens and K Expressions*", Journal of Testing and Evaluation, JTEVA, Vol 17, No. 4, July 1989, pp. 230–233.
298. Weibull W., "*A statistical theory of strength of metals*", Proc. Roy. Swedish Inst. Eng. Res., No.151, 1939
299. Weiss V., Yukawa Y., "*Critical appraisal of fracture mechanics. Fracture Toughness Testing and Its Applications*", ASTM STP 381:1-29, Philadelphia: ASTM, 1965
300. Wells A.A., Post D., "*The dynamic stress distribution surrounding a running crack - A photoelastic analysis*", Proc. Soc. Exper. Stress Analysis, 16(1): 69-96, 1958
301. Wells A.A., "*The mechanics of notch brittle fracture*", Welding Research Journal, Vol. 7, 1953
302. Wells A.A., "*The condition of fast fracture in aluminum alloys with particular reference to Comet failures*", British Welding Research Association Report, NRB 129. April 1955
303. Wells A.A., "*Unstable crack propagation in metals: cleavage and fast fracture*", Proc. Crack Propagation Symp., Vol.1, Paper 84, Cranfield, UK, 1961
304. Wells A.A., "*Application of fracture mechanics at and beyond general yielding*", British Welding Journal, 11: 563-570, 1963
305. Wells A.A., "*Notched bar tests, fracture mechanics and the brittle strengths of welded structures*", The Welding Institute Journal, 12(1): 2-13, 1965
306. Wessel E.T., "*State of the Art of the WOL Specimen for K_{IC} Fracture Toughness Testing*", Engineering Fracture Mechanics, Vol 1, No. 1, January 1968
307. Westergaard H.M., "*Bearing pressures and cracks*", J. Appl. Mech. Trans. ASME, 6: A49-A53, 1939
308. Wieghardt K., "*Über das Spalten und Zerreißen elastischer Körper*", Z. Mathematik und Physik, 55(1-2): 60-103, (English translation by H.P.Rossmanith:

-
- Wieghardt, K. (1995) On splitting and cracking of elastic bodies. *Fatigue and Fract. Eng. Mater. Struct.* 12(12): 1371-1405), 1907
309. Wigglesworth L.A., *"Stress distribution in a notched plate"*, *Mathematika*, 4: 76-96, 1957
310. Wilkinson D.S., Robertson A.G., *"Creep Damage Accumulation in Hot-Pressed Al_2O_3 "*, In: *High Tech Ceramics*, part B, pg. 1259-1264, Amsterdam, 1987
311. Williams J.G., *"Fracture Mechanics of Polymers"*, Chichester, UK: Ellis Horwood Ltd., 1984
312. Williams M.L., *"Stress singularities resulting from various boundary conditions in angular corners of plates in extension"*, *J. Appl. Mech.*, 74: 526-528, 1952
313. Williams M.L., *"On the stress distribution at the base of a stationary crack"*, *J. Appl. Mech. Trans., ASME*, 24: 109-114, 1957
314. Willmore T.J., *"The distribution of stress in the neighborhood of a crack"*, *Quart. J. Mech. Appl. Math.*, 2(1): 53-63, 1949
315. Winnie D.H.J., Wundt B.M., *"Application of the Griffith-Irwin theory of crack propagation to the bursting behavior of disks, including analytical and experimental studies"*, *Trans. ASME*, 80: 1643-1658, 1958
316. Withers P.J., Bhadeshia K., *"Residual stress-Part1-Measurements techniques"*, *Material Science and Technology*, vol. 17, pg. 355-365, 2001
317. Wobker H.G., Brinksmeier E., *"Optimisation of the Machining Process of Ceramics by Residual Stress Measurement"*, *Proc. 9th Int. Conf. on Exp. Mech.*, vol. 3, pg. 799-807, 1990
318. Wu S. X., *"Crack Length Calculation Formula for Three-Point Bend Specimen"*, *International Journal of Fracture*, Vol 24, 1984, pp. R33-R35
319. Wundt B.M., *"Catastrophic Crack Propagation"*, Memorandum, Structural Engineering Unit, Small Steam Turbine Department, Fitchburg Works, October, 1956
320. Xin Y.B., Hsia K.J., *"A Technique to Generate Straight Through Thickness Surface Cracks and its Application to Studying Dislocation Nucleation in Si"*, *Acta Materialia*, vol. 44, nr. 3, pg. 845-853, 1996
321. Xin Y-B., Hsia K.J., *"Simulation of the Brittle-Ductile Transition in Silicon Single Crystals Using Dislocation Mechanism"*, *Acta Materialia*, vol. 45, nr. 4, pg. 1747-1759, 1997
322. Yoffe E., *"The moving Griffith crack"*, *Philosophical Magazine*, 42: 739-750, 1951
323. Zhang S., Hsia K.J., *"Modelling the Fracture of Sandwich Due to Cavitation in a Ductile Adhesive Layer"*, *Journal Of Applied Mechanics*, vol. 68, pg. 93-100, Jan. 2001
324. ***, *"Buletinul Asociației Române de Mecanica Ruperii"*, nr. 3 - dec. 1996
325. ***, *"Buletinul Asociației Române de Mecanica Ruperii"*, nr. 4 - sept 1997
326. ***, *"Buletinul Asociației Române de Mecanica Ruperii"*, nr. 5 - martie 1998
327. ***, *"Cercetări asupra celei de-a treia generații de materiale ceramice"*, In: *Keram Z.*, RFG, Nr. 8, pg. 588-591, 1989
328. ***, *"Drilling Rosette RY61 with Centring and Drilling Aid, Electrical Measurements of Mechanical Quantities"*, HBM Data Sheet
329. ***, *"Flexural Strength of High Performance Ceramics at Ambient Temperature"*, U.S. Army Military Standard, MIL Std, 1983
330. ***, *"Introduction to Materials Science, Chapter 14, Application and Processing of Ceramics"*, Univ. of Virginia, Dept. of Materials Science and Engineering, 2002
-

- 331. *** *"Situația și tendințele de dezvoltare a materialelor ceramice"*, In: Sprechsal, RFG, nr.1, pg 3, 1988
- 332. ***, *"Standard Test Method for Tensile Stress-Strain of Carbon and Graphite"*, ASTM C749-87
- 333. Zheltov Yu.P., Khristianovich S.A., Izv. AN SSSR, ONTI 5:3-41, 1955
- 334. ***, *"Standard Test Method for Determining Residual Stresses by the Hole Drilling Strain-Gage Method"*, ASTM E837-92
- 335. ***, *"Standard Test Method for Tensile Stress-Strain of Carbon and Graphite"*, ASTM C749-87
- 336. ***, *"Standard Test Method for Compressive Strength of Carbon and Graphite"*, ASTM 695-91
- 337. ***, *"Standard Test Method for Determining Residual Stresses by the Hole-Drilling Strain-Gage Method"*, ASTM E837-92
- 338. ***, *"Standard Test Method for Dynamic Young's Modulus, Shear Modulus and Poisson's Ratio for Advances Ceramics by Sonic Resonance"*, ASTM C1198-91
- 339. ***, *"Standard Test Method for Dynamic Young's Modulus, Shear Modulus and Poisson's Ratio for Advances Ceramics by Impulse Excitation of Vibration"*, ASTM C1259-94
- 340. ***, *"Standard Test Method for Flexural Strength of Manufactured Carbon and Graphite Articles Using Four - Point Loading at Room Temperature"*, ASTM 651-91
- 341. ***, *"Standard Test Method for Modul of Elasticity and Fundamental Frequencies of Carbon and Graphite Materials by Sonic Resonance"*, ASTM C747-88
- 342. ***, *"Standard Test Method for Performance Characteristics of Bonded Resistance Strain Gage"*, ASTM E251
- 343. ***, *"Standard Test Method for Poisson Ratio at Room Temperature"*, ASTM E132-1992
- 344. ***, *"Standard Test Method for Sonic Velocity in Manufactured Carbon and Graphite Materials for Use in Obtaining an Approximate Young's Modulus"*, ASTM C769-89
- 345. ***, *"Standard Test Method for Young's Modulus of Refractory Shapes by Sonic Resonance"*, ASTM C885-87
- 346. ***, *"Standard Test Method for Young's Modulus, Tangent Modulus and Chord Modulus"*, ASTM E111-88
- 347. ***, *"Utilizarea ultrasunetelor în defectoscopia ceramicii"*, Editura Tehnică, București, 1981
- 348. *"Fracture Toughness Testing and Its Applications"*, ASTM STP 381, April 1965