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## Referências bibliográficas

ANDERSON, T.L. **Fracture Mechanics**, CRC, 1995.

ARAÚJO, T.D.P. “**Análise Elasto-Plástica Adaptativa de Estruturas com Trincas**”, Dissertação de Doutorado, Departamento de Engenharia Civil, Pontifícia Universidade Católica do Rio de Janeiro (PUC-Rio), Brasil, 1999.

ASTM. **Standard ASTM**, E647, 1999.

BANKS-SILLS, L. E SHERMAN, D., “**Comparison of Method for Calculating Stress-Intensity Factors with Quarter-Point Elements**”, International Journal of Fracture Mechanics, v. 32, 1986, pp.127-140.

BARSMOM, J.M. E ROLFE, S.T., **Fracture and Fatigue Control in Structures**, Prentice-Hall, New Jersey, 1987.

BARSOUM, R. S., “**On the Use of Isoparametric Finite Elements in Linear Fracture Mechanics**”, International Journal for Numerical Methods in Engineering, 10, 25-37, 1976.

BARSOUM, R. S., “**Triangular Quarter-point Elements as Elastic and Perfectly-plastic Crack Tip Elements**”, International Journal for Numerical Methods in Engineering, 11, 95-98, 1977.

BITTENCOURT, T.N., WAWRZYNEK, P.A., INGRAFFEA, A.R., AND SOUSA, J.L.A., “**Quasi-Automatic Simulation of Crack Propagation for 2D LEFM Problems**”, Engineering Fracture Mechanics, v. 55, 1996, pp. 321-334.

BROEK, D., **Elementary Engineering Fracture Mechanics**, 4th ed., Martinus Nijhoff 1986.

BROEK, D., **The Practical Use of Fracture Mechanics**, Kluwer 1988.

BUI, H.D., “**Associated Path Independent J-Integrals for Separating Mixed Modes**”, Journal of Mechanics & Physics Solids, v. 31, 1983, pp. 439-448.

CARVALHO, C. V. A., “**Simulação Bidimensional Adaptativa por Elementos Finitos de Processos de Fraturamento por Fadiga**”, Tese de Mestrado, Departamento de Engenharia Civil, PUC-Rio, 1998.

CASTRO, J.T.P., MEGGIOLARO, M.A. **Fadiga sob Cargas Reais de Serviço**, PUC-Rio 2003 (em publicação)

CASTRO, J.T.P. AND PARKS, D.M., “**Decrease in Closure and Delay of Fatigue Crack Growth in Plane Strain**”, Scripta Metallurgica, v.16, 1982, pp.1443-1445.

CAVALCANTE NETO, J. B. - “**Geração de Malha e Estimativa de Erro para Modelos Tridimensionais de Elementos Finitos com Trincas**”, Dissertação de Doutorado, Departamento de Engenharia Civil, PUC/Rio, 1998.

CHAN, S. K., TUBA, I. S. and WILSON, W. K., “**On the Finite Element Method in Linear Fracture Mechanics**”, Engineering Fracture Mechanics, 2, 1-17, 1970.

CHEN, K.L. E ATLURI, N., “**Comparison of Different Methods of Evaluation of Weight Functions for 2D Mixed-Mode Fracture Analysis**”, Engineering Fracture Mechanics, v. 34, 1989, pp. 935-956.

CHEW, L. P., “**Constrained Delaunay Triangulation**”, Algorithmic, 4, 97-108, 1989

DALLY, J. W., RILEY, W. F., **Experimental Stress Analysis**, McGrawHill, 1991.

DIVENAH, L. AND BEAUFILS, J. Y., “**Large Commercial Aircraft Loading Spectra. Overview and State of the Art**”, *Symposium on Fatigue Testing and Analysis under Variable Amplitude Loading Conditions*, Tours, France, 2002.

DODDS, R.H. JR. E VARGAS, P.M., “**Numerical Evaluation of Domain and Contour Integrals for Nonlinear Fracture Mechanics**”, Report, Dept. of Civil Engineering, U. of Illinois, Urbana-Champaign, 1988.

DOWLING, N.E., **Mechanical Behavior of Materials**, Prentice-Hall, Inc., New Jersey, 1999.

DURÁN, J. A. R., “**Modelos de Acúmulo de Dano por Plasticidade Cíclica para Previsão de Taxas de Propagação de Trincas de Fadiga**”, Tese de Doutorado, COPPE/UFRJ, Engenharia Metalurgica e de Materiais, 2001.

EISCHEN, J.W., “**An Improved Method for Computing the J2 Integral**”, Engineering Fracture Mechanics, v. 26, 1987, pp. 691-700.

ELBER, W. “**The Significance of Fatigue Crack Closure**”, ASTM STP 486, 1971.

ERDOGAN, F. E SIH, G.C., “**On the Crack Extension in Plates under Plane Loading and Transverse Shear**”, Journal of Basic Engineering, v. 85, 1963, pp. 519-527.

FELIPPA, C. A., “**A Historical Outline of Matrix Structural Analysis: A Play in Three Acts**”, Computers & Structures, v. 79, 2001, p. 1313-1324 .

FORMAN, R.G., “**Numerical Analysis of Crack Propagation in Cyclic-Loaded Structures**”, Journal of Basic Engineering, v. 89, 1967, pp. 459-464.

GRIFFITH, A.A., “**The Phenomena of Rupture and Flow in Solids**”, Philosophical Transactions, v. 221, 1920, pp. 163-198.

HARROP, L. P., “**The Optimum Size of Quarter-point Crack Tip Elements**”, International Journal for Numerical Methods in Engineering, 17, 1101-1103,

1982.

HELLEN, T. K., “**A Novel Approach to Crack-tip Singularity Solutions**”, Computers & Structures, 22, 743-747, 1986.

HENSHELL, R. D. and SHAW, K. G., “**Crack Tip Finite Elements are Unnecessary**”, International Journal for Numerical Methods in Engineering, 9, 495-507, 1975.

HUDSON, C.M., “**A Root-Mean-Square Approach for Predicting Fatigue Crack Growth under Random Loading**”, ASTM STP 748, 1981, pp.41-52.

HUSSAIN, M.A., PU, S.U., E UNDERWOOD, J. “**Strain Energy Release Rate for a Crack under Combined Mode I and II**”, ASTM STP 560, 1974, pp. 2-28.

INGLIS, C. E., “**Stresses in a Plate Due to the Presence of Cracks and Sharp Corner**”, Transactions of the Institute of Naval Architects, Vol. 55, 1913, pp.219-241.

INGRAFFEA, A. R. and MANU, C., **Stress-intensity factor computation in the three dimensions with quarter-point elements**, International Journal for Numerical Methods in Engineering, 15, 1427-1445, 1980.

IRWIN, G. R., “**Fracture Dynamics**”, Fracturing of Metals, American Society for Metals, 1948, pp.147-166.

IRWIN, G. R., “**Onset Of Fast Crack Propagation in High Strength Steel and Aluminum Alloys**”, Sagamore Research Conference Proceedings, v. 2, 1956, pp.289-305.

IRWIN, G. R., “**Analysis of Stresses and Strains Near the End of a Crack Traversing a Plate**”, Journal of Applied Mechanics, v. 24, 1957, pp.361-364.

KIENZLER, R. AND KORDISCH, H., “**Calculation of J1 and J2 Using the L and M Integrals**”, International Journal of Fracture, v. 43, 1990, pp. 213-225.

KNOWLES, J.K. AND STERNBERG, E., “**On a Class of Conservation Laws in Linearized and Finite Elastostatics**”, Archives for Rational Mechanics & Analysis, v. 44, 1972, pp. 187-211.

LANKFORD, J., DAVIDSON, D.L., “**The Effect of Overloads upon Fatigue Crack Tip Opening Displacement and Crack Tip Opening/Closing Loads in Aluminum Alloys**”. In Advances in Fracture Research, Pergamon Press, Oxford 1981;2:899-906.

LIN, S. C. and ABEL, J. F., “**Variational Approach for a New Direct-integration Form of the Virtual Crack Extension Method**”, International Journal of Fracture, 38, 217-235, 1988.

LYNN, P. P. and INGRAFFEA, A. R., “**Transition Elements to Be Used with Quarter-point Crack-tip Elements**”, International Journal for Numerical Methods in Engineering, 12, 1031-1036, 1978.

MEGGIOLARO, M.A. E CASTRO, J.T.P., “**ViDa 98 – a Visual Damagometer**

**to Automatize the Fatigue Design under Complex Loading”, Revista Brasileira de Ciências Mecânicas, v. 20, 1998, pp. 666-685.**

MIRANDA, A.C.D. O., CAVALCANTE NETO, J.B., MARTHA, L.F., “**An Algorithm for Two-dimensional Mesh Generation for Arbitrary Regions with Cracks**”, SIBGRAPI’99 – XII Brazilian Symposium on Computer Graphics, Image Processing and Vision, UNICAMP/SBC, Campinas, SP, Out. 1999, IEEE Computer Society Order Number PRO0481, ISBN 0-7695-0481-7, Eds.: J. Stolfi & C. Tozzi, 1999, pp. 29-38.

**MTS, TestStarII – Control System – Reference Manual**, MTS, 1996.

MURAKAMI, Y., **Stress Intensity Factors Handbook**, Pergamon Press, New York, 1987.

NIKISHKOV, G.P. E ATLURI, S.N., “**Calculation of Fracture Mechanics Parameters for an Arbitrary Three-Dimensional Crack by the Equivalent Domain Integral Method**”, International Journal for Numerical Methods in Engineering, v. 24, 1987, pp.1801-1821.

NELSON, D.V. AND FUCHS, H.O., “**Predictions of Cumulative Fatigue Damage Using Condensed Load Histories**”, in Fatigue Under Complex Loading, SAE 1977.

OROWAN, E., “**Fracture and Strength of Solids**”, Reports on Progress in Physics, v. XII, 1948, pp.185.

PARIS, P.C. AND ERDOGAN, F., “**A Critical Analisys of Crack Propagation Laws**”, Jornal of Basic Engineering, v. 85, 1960, pp. 528-534.

PARIS, P.C., GOMES, M.P., AND ANDERSON, W. P., “**A Rational Analytic Theory of Fatigue**”, The Trend in Engineering, v. 13, 1961, pp. 9-14.

PAULINO, G.H., MENEZES, I.F.M., CAVALCANTE NETO, J.B., AND MARTHA, L.F., “**A Methodology for Adaptive Finite Element Analysis: Towards an Integrated Computational Environment**”, Computational Mechanics, v. 23, 1999, pp. 361-388.

PRIDDLE, E.K., WALKER, F.E., “**Effect of Grain-Size on Occurrence of Creavage Fatigue Failure in 316 Stainless-Steel**”, J. Mater. Sci., v. 11, 1976, pp. 386-388.

RAJU, I.S., “**Calculation of Strain-Energy Release Rates with Higher Order and Singular Finite Elements**”, Engineering Fracture Mechanics, v.28, 1987, pp.251-274.

RICE, J.R., “**A Path Independent Integral and the Approximate Analysis of Strain Concentration by Notches and Cracks**”, Journal of Applied Mechanics, v. 35, 1968, pp. 379-386.

ROOKE, D.P. AND CARTWRIGHT, D.J., **Compendium of Stress Intensity Factors, Her Majesty’s Stationary Offfce**, London, 1976.

RYBICKI, E.F. E KANNINEN, M.F., “**A Finite Element Calculation of Stress-**

**Intensity Factors by a Modified Crack Closure Integral”, Engineering Fracture Mechanics, v. 9, 1977, pp.931-938.**

SAOUMA, E. V. and SCHWEMMER, D., “**Numerical Evaluation of the Quarter-point Crack Tip Element**”, International Journal for Numerical Methods in Engineering, 20, 1629-1641, 1984.

SHIH, C.F., DE LORENZI, H.G., E GERMAN, M.D., “**Crack Extension Modeling with Singular Quadratic Isoparametric Elements**”, International Journal of Fracture, v.12, 1976, pp.647-651.

SIH, G.C., “**Strain-Energy-Density Factor Applied to Mixed Mode Crack Problems**”, International Journal of Fracture Mechanics, v. 10, 1974, pp. 305-321.

SURESH, S., **Fatigue of Materials**, Cambridge 1998.

TADA, H., PARIS, P.C., AND IRWIN G. R., **The Stress Analysis of Cracks Handbook (2nd Ed.)**, Paris Productions, Inc., St. Louis, 1985.

TRACEY, D. M., “**Finite Elements for Determination of Crack Tip Elastic Stress Intensity Factors**”, Engineering Fracture Mechanics, v. 3, 1971, pp. 255-265.

YEHIA, N. A. B. and SHEPHARD, M. S., “**On the Effect of Quarter-point Element Size on Fracture Criteria**”, International Journal for Numerical Methods in Engineering, 21, 1911-1924, 1985.

WALKER, E.K., “**The Effect of Stress Ratio During Crack Propagation and Fatigue fot 2024-T3 and 7075-T6 Aluminu**”, ASTM STP 462, American Society for Testing and Materials, Philadelphia 1970.

WILLIAM, G.R., “**On the Stress Distribution at the Base of a Stationary Crack**”, Jornal of Applied Mechanics, v. 24, 1957, pp. 109-114.

ZIENKIEWICZ, O. C., HUANG, G. C. and LIN, Y. C., “**Adaptive FEM Computation of Forming Processes – Application to Porous and Non-porous Materials**”, International Journal for Numerical Methods in Engineering, 30, 1527-1553, 1990.

ZHU, W. X. and SMITH, D. J., “**On the Use of Displacement Extrapolation to Obtain Crack Tip Singular Stress and Stress Intensity Factors**”, Engineering Fracture Mechanics, 51, 391-400, 1995.