

Paulo M S Tavares de Castro
Relatório sumário de actividade 2006

1. ACTIVIDADES DE ENSINO

1.1. Disciplinas

- Órgãos de Máquinas I, Lic Eng Mec da FEUP, 1º semestre 2005/2006
- Engenharia de Manutenção, Mestrado em Manutenção Industrial da FEUP, 2005/2006 (co-regente da disciplina: Prof L A Ferreira)
- Mecânica da Fractura, 5º ano da LEM e Mestrado em Eng Mec, 2º semestre de 2005/2006
- Órgãos de Máquinas, Mestrado Integrado em Eng Mec da FEUP, 1º semestre 2006/2007 (co-regente da disciplina: Prof L A Ferreira)

1.2. Material didáctico

- S M O Tavares, A Balacó de Morais, P M S T de Castro, *slides ppt*: O Método das Forças Nodais para determinação de K; (para disciplina Mecânica da Fractura)
- S M O Tavares, P M S T de Castro, *slides ppt*: Determinação de Factores de Intensidade de Tensão: Método baseado na extrapolação de valores de K calculados a partir dos deslocamentos, usando o *software* ANSYS; (para disciplina Mecânica da Fractura)
- P M G P Moreira, P M S T de Castro, *slides ppt*: Determinação de Factores de Intensidade de Tensão: Utilização do conceito de integra J, recorrendo ao *software* ABAQUS e *software* FEMAP; (para disciplina Mecânica da Fractura)

1.3. Orientação de trabalhos de fim de curso

- Sérgio Miguel Nogueira Santos, “Apoio na organização da manutenção”, BA Vidro SA, projecto de fim de curso 2005/2006; orientador na empresa: Eng Reinaldo Coelho; P M S T de Castro – co-orientador na FEUP
- Valentin Richter-Trummer, Structural integrity of welded panels for fuselages”, projecto de máquinas 2006/2007 (5º ano da LEM da FEUP). P M S T de Castro - orientador

1.4. Organização de projectos de fim de curso em empresas

- Francisco Homem, “Dispositivos de fixação e movimentação de bancos de automóveis”, projecto de fim de curso 2006/2007, SUNVIAUTO; Eng Rui Sousa, responsável na empresa;
- José Miguel de Assis Azevedo de Sousa, “Dispositivos de fixação e movimentação de bancos de automóveis”, projecto de fim de curso 2006/2007, SUNVIAUTO; Eng Rui Sousa, responsável na empresa;
- Joana Morgado, “Metodologia de análise do impacto da inserção de novas peças (*carters*) nos meios industriais existentes. - Modelização em 3D-CATIA”, projecto de fim de curso 2006/2007, CACIA RENAULT; Eng José Figueiredo, responsável na empresa;
- João Vilar, “Produtividade Linha de montagem Caixas de velocidade. Identificação de oportunidades de produtividade e propostas técnicas para a sua aplicação”,

- projecto de fim de curso 2006/2007, CACIA RENAULT; Eng Francisco Morais, responsável na empresa;
- Tiago Lopes, “Modelação e verificação pelo MEF de estruturas de autocarros”, projecto de fim de curso 2006/2007, CAETANOBUS; Eng Filipe Fernandes, responsável na empresa;
 - André Ramos, “Modelação e verificação pelo MEF de estruturas de autocarros”, projecto de fim de curso 2006/2007, CAETANOBUS; Eng Filipe Fernandes, responsável na empresa;
 - Manuel Melo, “Dispositivos de movimentação de garrafas para controlo de integridade”, projecto de fim de curso 2006/2007, BA Vidro; Eng Reinaldo Coelho, responsável na empresa.

2. ACTIVIDADE DE INVESTIGAÇÃO E DESENVOLVIMENTO

2.1. Coordenação de projectos de investigação

- European Rail Research Network of Excellence 'EUR2EX' (passou a chamar-se EURNEX), FP6 priority 1.6.2, proposal/contract FP6-PLT-506513; project coordinator: Wolfgang H Steinicke, Transport Technology Systems Network (FAV) Berlin; Resp no IDMEC: P M S T de Castro; início: Jan 1, 2004, em curso.
- DATON - 'Innovative fatigue and damage tolerance methods for the application of new structural concepts', European Union call FP6-2003-AERO-1, proposta FP6-516053; project leader Prof P Horst, T U Braunschweig; resp no IDMEC: P M S T de Castro, início: Abril 2005; em curso.
- ‘Re-equipamento da Unidade de Concepção e Validação Experimental do IDMEC-Pólo FEUP’, Candidatura apresentada à Fundação para a Ciência e Tecnologia do Ministério da Ciência e Tecnologia em Abril de 2002, contrato 375/EME/2005, executado em 2006 (com A A Fernandes, Pedro Camanho et al)

2.2. Candidaturas a projectos de investigação em avaliação

- Concursos de Projectos de Cooperação Internacional, acção V.5.1, projecto complementar ao projecto europeu DATON - Numerical modelling of FEW and LBW processes. (Innovative Fatigue and Damage Tolerance Methods for the Application of New Structural Concepts - DaToN); P M S T de Castro, submetido FCT em 15 de Maio de 2006
- PTDC/EME-TME/66362/2006 – “WELDING - Sensores de Bragg em fibra óptica para a modelação de fricition stir welding (FSW) e laser beam welding (LBW)”;
- “WELDING - Fiber Bragg grating sensors for modelling of Friction Stir Welding (FSW) and Laser Beam Welding (LBW)”;
- P M S T de Castro, submetido ao concurso de projectos de ID da FCT, 2006
- Candidatura A 059/2005, Medida V.5 Acção V.5.2 – apoio à participação nacional em Redes e Projectos Europeus; “network of excellence EURNEX”, European Rail Research Network of Excellence EURNEX; P M S T de Castro, candidatura à FCT de 11 de Maio de 2005 , posteriormente clarificada em 4 de Julho de 2005
- Contribuição para a candidatura da Unidade de Concepção e Validação Experimental ao Programa para contratação de doutorados para o sistema científico e tecnológico nacional da FCT, Set 06, R Natal Jorge (“Preliminary Proposal in the

field of Fracture and Fatigue Research, submitted by Professors Paulo M S T de Castro and José M A César de Sá, to be included in the application of DEMEGI, FEUP”; Program “Commitment for Science” of FCT - Fundação para a Ciência e Tecnologia, datado Jun 06)

2.3. Candidaturas a projectos de investigação em avaliação com coordenação de outras entidades

- PTDC/ECM/69697/2006, ‘Advanced methodologies for the assessment of the dynamic behaviour of high speed railway bridges’; Coord: Rui Artur Bártolo Calçada, DEC, FEUP

2.4. Participação em outros projectos

- "J.L. Câncio Martins, Projecto de Estruturas, Lda", Maio de 2006 e Setembro de 2006, RM Natal Jorge, AA Fernandes, PMS Tavares de Castro, A de Jesus, A Ribeiro.

2.5. Orientação de trabalhos de doutoramento

- Pedro M G P Moreira, (bolsa FCT), comportamento à fadiga de estruturas soldadas de ligas de alumínio, nomeadamente as realizadas por Friction Stir Welding (FSW) e por Laser Beam Welding (LBW), FEUP, orientador P M S T de Castro, FEUP, co-orientador A A Morão Dias, FCTUC; iniciado em 1 Out 2004

2.6. Orientação de trabalhos de mestrado

- Filipe José Palhares Chaves, “Application of adhesive bonding in PVC Windows”, tese de mestrado em Design Industrial, FEUP, orientador: Lucas F M da Silva; co-orientador: P M S T de Castro, exame final em 30 de Março 2006
- Sérgio M O Tavares, “Integrity of Stiffened Structures: Fatigue and Fracture Mechanics Analysis”, tese de mestrado em Engenharia Mecânica, P M S T de Castro (orientador) iniciada em Set 2006

3. PUBLICAÇÕES

3.1. Livros

- G C Sih, P M S T de Castro, eds., “Multiscale Behavior of Materials and Structures: Analytical, Numerical and Experimental Simulation”, proceedings of 8th Mesomechanics conference, Porto, July 19-22, 2006, Publindústria, 2006

3.2. Artigos em revistas de circulação internacional (publicados ou aceites)

- P F P de Matos, A J McEvily, P M G P Moreira and P M S T de Castro, “Analysis of the effect of cold-working of rivet holes on the fatigue life of an aluminum alloy”, International Journal of Fatigue, Volume 29, Issue 3, March 2007, Pages 575-586

- P M G P Moreira, P F P de Matos, P P Camanho, Stefan D Pastrama and P M S T de Castro, “Stress intensity factor and load transfer analysis of a cracked riveted lap joint”, *Materials and Design*, Volume 28, Issue 4, 2007, Pages 1263-1270
- F J Q Melo, J A O Carneiro, C L Tavares, P P Camanho and P M S T de Castro, “A simplified method for the impact test of beams using a pseudo-dynamic (PSD) process”, *Mechanics Research Communications*, Volume 33, Issue 2, March-April 2006, Pages 190-205
- R Monteiro, P M S T de Castro, C Calhau, I Azevedo, 'Adipocyte size and liability to cell death', *Obesity Surgery*, vol.16, (6), June 2006, pp.804-806

3.3. Comunicações em conferências internacionais

- F J P Chaves, Lucas F M da Silva and P M S T de Castro, “The use of adhesive bonding in PVC”, 30th Annual Meeting of the Adhesion Society, Tampa, Florida, USA, Feb 18-21, 2007
- P M S T de Castro, “Mobility: Perils and Possibilities; the Case of the Academic Staff of a Portuguese Department of Mechanical Engineering” (poster), Conf. Science Policies Meet Reality: Gender, Women and Youth in Science in Central and Eastern Europe, Masarykova kolej, Prague, Czech Republic, Dec. 1-2, 2006
- João M R S Tavares, Manuel Vaz Guedes and Paulo M S T de Castro, “The Collection of Reuleaux Models of the Faculdade de Engenharia da Universidade do Porto, Portugal: Brief Historical Note and Current Status” invited communication, IFToMM Workshop on the History of Machines and Mechanisms, Sept 8-10, 2006, Ithaca, NY, USA, Sept 9, 2006
- P Moreira, O Frazão, S M O Tavares, M A V de Figueiredo, M T Restivo, J L Santos, and P M S T de Castro, ‘Temperature field acquisition during gas metal arc welding using FBG sensors’, *Mechanics & Materials in Design (M2D’2006)*, 5th International Conference, Faculty of Engineering, University of Porto, Portugal, 24-26 July 2006
- P M G P Moreira, F M F de Oliveira, P M S T de Castro, ‘Friction stir welded aluminium alloy 6063-T6: mechanical characterization, fatigue tests and defects identification’, in: G C Sih, P M S T de Castro, eds, “Multiscale Behavior of Materials and Structures: Analytical, Numerical and Experimental Simulation”, proceedings of 8th Mesomechanics conference, Porto, Portugal, July 19-22, 2006, Publindustria, pp.295-304
- Paulo M S T de Castro, Paulo F P de Matos, Pedro M G P Moreira, Lucas F M da Silva, 'Fatigue analyses of aeronautical structural details of different complexity', in: G C Sih, P M S T de Castro, eds, “Multiscale Behavior of Materials and Structures: Analytical, Numerical and Experimental Simulation”, proceedings of 8th Mesomechanics conference, Porto, Portugal, July 19-22, 2006, Publindustria, pp.313-325
- F J P Chaves, L F M da Silva, P M S T de Castro, "Application of adhesive bonding in PVC windows", 20th International Symposium Swiss Bonding 06 - Adhesive Bonding: Ever New Challenges, Always New Solutions, Zurich, Switzerland, May 16-18, 2006
- P M G P Moreira, F M F de Oliveira, P M S T de Castro, ‘Mechanical characterization of friction stir welded aluminium alloy 6063-T6’, *Fatigue 2006*, 9th International Fatigue Congress, Atlanta, USA, May 14-19, 2006

- P M S T de Castro, San Antonio, Texas, USA, March 12-16, 2006: invited communication, 2006 TMS Annual Meeting & Exhibition - Fatigue and Fracture of Traditional and Advanced Materials: A Symposium in Honor of Art McEvily's 80th Birthday, San Antonio, Texas, USA, March 12-16, 2006; invited paper, submitted for publication in the special issue of Materials Science and Engineering dedicated to this symposium (paper authors and title: P M S T de Castro, P F P de Matos, P M G P Moreira, L F M da Silva, 'An overview on fatigue analysis of aeronautical structural details: open hole, single rivet lap-joint, and lap-joint panel').

3.4. Comunicações em conferências nacionais

- P M G P Moreira, S M O Tavares, A Portela, S D Pastrama, P M S T de Castro, 'Fracture mechanics analyses using the dual boundary element method', XII Simpozion National De Mecanica Ruperii, 3-4 noiembrie 2006, Universitatea "Valahia" Din Târgoviste, Târgoviste, România, ISBN (10) 973-7616-48-0, ISBN (13) 978-973-7616-48-7, pp.41-48
- R Monteiro, P M S T de Castro, C Calhau, I Azevedo, "Adipócitos: tamanho e morte celular", XII Curso Pós-Graduado de Endocrinologia, Diabetes e Metabolismo; III Curso de Alimentação e Nutrição Clínica". Hospital de são João e UP, Porto, Portugal, 4-6 Maio 2006, livro de resumos, p.72
- S D Pastrama, S M O Tavares, P M G P Moreira, P M S T de Castro, 'Compounded stress intensity factors: a brief introduction to the method and the case of cracked stiffened plates', 10th Portuguese Conference on Fracture, Guimarães, Portugal, February 22-24, 2006
- P M G P Moreira, F M F de Oliveira, P M S T de Castro, 'Mechanical characterization of friction stir welded aluminium alloy 6063-T6', 10th Portuguese Conference on Fracture, Guimarães, Portugal, February 22-24, 2006
- M A V Figueiredo, A M P de Jesus, H F S G Pereira, A S Ribeiro, R M N Jorge, P M G P Moreira, P M S T de Castro, A A Fernandes, 'Fatigue analysis of riveted lap joints using fracture mechanics concepts', 10th Portuguese Conference on Fracture, Guimarães, Portugal, February 22-24, 2006

3.5. Publicações internas e relatórios derivadas de projectos de investigação e extensão universitária

- DATON EADS-Paris meeting (27-28 Mar 06) *ppt presentations*:
 - on compounding technique
 - on AIRBUS tests
- Pedro M G P Moreira, Sérgio M O Tavares, Paulo M S T de Castro, "Finite Element Analysis of a Stiffened Plate (DaToN Specimen)", DaToN – WD – WP3 – 1.1 / IDMEC, April 13, 2006
- Sérgio M O Tavares, Stefan D Pastrama, Pedro M G P Moreira, Paulo M S T de Castro, "Compounding Method for Calculating Stress Intensity Factors: General Introduction and the Case of Cracked Stiffened Sheets", DaToN – SD2.1.11 – WP 2 – 1.0 / IDMEC , March 2006
- Sérgio M O Tavares, Pedro M G P Moreira, Paulo M S T de Castro, "Crack growth in Airbus test panels with seven stiffeners and a central crack. Part I: $a < 135$ mm", DaToN – WD2 – WP2 – 1.0 / IDMEC, April 2006
- Sérgio M O Tavares, Stefan D Pastrama, Pedro M G P Moreira, Paulo M S T de Castro, "Comparison of Stress Intensity Factor Calculation Techniques, with

Particular Application to the Case of Cracked Stiffened Sheets”, DaToN – WD 3 – WP 2 – 1.0 / IDMEC, September 2006

- DATON NLR-Emmelrood meeting 27-28 Sept 06
 - Sérgio M O Tavares, Pedro M G P Moreira, Paulo M S T de Castro, Prediction of Crack Propagation in Airbus Stiffened Panels Tests, ppt presentation at the NLR meeting, 27-28 Sept 2006
 - *ppt presentation on WP3*
- S M O Tavares, P M G P Moreira, V Richter-Trummer, P M S T de Castro, Fatigue crack growth in Airbus test panels with seven stiffeners and a central crack, DaToN – WD4 – WP2 – 1.0 / IDMEC, Nov 2006
- RM Natal Jorge, PMS Tavares de Castro, AA Fernandes, "Análise de relatórios de inspeção da Ponte Eiffel – Viana do Castelo", Relatório efectuado para a empresa J.L. Câncio Martins, Projecto de Estruturas, Lda, IDMEC-Pólo FEUP, Maio de 2006.
- RM Natal Jorge, PMS Tavares de Castro, AA Fernandes, "Análise de relatórios de inspeção da Ponte Eiffel – Viana do Castelo. Aditamento", Relatório efectuado para a empresa J.L. Câncio Martins, Projecto de Estruturas, Lda, IDMEC-Pólo FEUP, Julho de 2006.
- RM Natal Jorge, A Ribeiro, A de Jesus, M Figueiredo, PMS Tavares de Castro, AA Fernandes, "Ponte Eiffel – Viana do Castelo, Avaliação de Resultados de Programa Exeperimental", Relatório efectuado para a empresa J.L. Câncio Martins, Projecto de Estruturas, Lda, IDMEC-Pólo FEUP, Setembro de 2006.

4. PARTICIPAÇÃO EM REUNIÕES CIENTÍFICAS

4.1. Participação em conferências internacionais

- P M S T de Castro, Conf. Science Policies Meet Reality: Gender, Women and Youth in Science in Central and Eastern Europe, Masarykova kolej, Prague, Czech Republic, Dec. 1-2, 2006
- P M S T de Castro, (invited communication), IFToMM Workshop on the History of Machines and Mechanisms, Ithaca, NY, Cornell University, USA, Sept 8-10, 2006
 - *P M G P Moreira, Mechanics & Materials in Design (M2D'2006), Faculty of Engineering, University of Porto, Portugal, 24-26 July 2006*
- P M S T de Castro, Porto, Portugal, 8th Mesomechanics Conference, Porto, Portugal, (organizador), July 19-22, 2006
- P M S T de Castro, (invited communication), “Fadiga de fuselagem de alumínio: alguns resultados”, invited lecture, 1º workshop de Mecanica da Fratura, Universidade Federal do Rio Grande do Sul, Porto Alegre, Brasil, June 20-21, 2006
 - *S M O Tavares, Vienna, Austria, Aeronautics Days 2006, June 19-21, 2006*
 - *P M G P Moreira, Atlanta, USA, Fatigue 2006, 9th International Fatigue Congress, May 14-19, 2006*
- P M S T de Castro, (invited communication), 2006 TMS Annual Meeting & Exhibition - Fatigue and Fracture of Traditional and Advanced Materials: A Symposium in Honor of Art McEvily's 80th Birthday, San Antonio, Texas, USA, March 12-16, 2006

4.2. Participação em conferências nacionais

- P M S T de Castro, *S D Pastrama, P M G P Moreira, S M O Tavares, M V de Figueiredo*, 10th Portuguese Conference on Fracture, Guimarães, February 22-24, 2006

4.3. Participação noutros eventos

- P M S T de Castro, *com P M G P Moreira e S M O Tavares*, EADS Corporate Reserarch Center, Suresnes, Paris 27-28 Mar 06, reunião do projecto DaToN: Innovative Fatigue and Damage Tolerance Methods for the Application of New Structural Concepts, Proposal/Contract no.: FP6-516053
- P M S T de Castro, *com P M G P Moreira e S M O Tavares*, NLR, Emmeloord, 27-28 Sept 06, reunião do projecto DaToN: Innovative Fatigue and Damage Tolerance Methods for the Application of New Structural Concepts, Proposal/Contract no.: FP6-516053

5. OUTRAS RELACÕES INTERNACIONAIS

5.1. Participação em redes internacionais

- P M S T de Castro, European Rail Research Network of Excellence 'EUR2EX' (passou a chamar-se EURNEX), FP6 priority 1.6.2, proposal/contract FP6-PLT-506513; project coordinator: Wolfgang H Steinicke, Transport Technology Systems Network (FAV) Berlin; Resp no IDMEC: P M S T de Castro; início: Jan 1, 2004, em curso.
- EASN - European Aeronautics and Space Network, P M S T de Castro, desde 2005

5.2. Outras

- P M S T de Castro, Porto Alegre, Brasil, June 20, 2006: 'Fadiga de fuselagem de alumínio: alguns resultados', invited lecture, 1º workshop de Mecânica da Fratura, Universidade Federal do Rio Grande do Sul, Porto Alegre, Brasil, June 20-21, 2006

6. OUTRAS ACTIVIDADES

6.1. Participação em júris de agregação

- José Joaquim Lopes Morais, provas de agregação em Mecânica Aplicada, UTAD, 19-20 de Outubro de 2006, P M S T de Castro - membro do júri
- José Domingos Moreira da Costa, provas de agregação em Engenharia Mecânica, Universidade de Coimbra, 30-31 de Maio de 2006, P M S T de Castro - membro do júri e arguente
- Augusto Duarte Campos Barata da Rocha, provas de agregação em Engenharia Mecânica, FEUP, 16-17 de Janeiro de 2006, P M S T de Castro - membro do júri

6.2. Participação em júris de doutoramento

- António Manuel Bastos Pereira, “Fractura interlaminar de comósitos de matriz metálica”, doutoramento na Universidade de Aveiro, 30 de Outubro de 2006, P M S T de Castro - membro do júri
- Rui Fernando dos Santos Pereira Martins, "Análise de falha de condutas de evacuação de gases de turbinas a gás utilizadas para propulsão naval", doutoramento no IST da UTL, 17 de Junho de 2005, P M S T de Castro - membro do júri e arguente

6.3 Participação em júris de mestrado

- Manuel António Lima da Silva, Estudo das propriedades de fractura em modo II e em modo III da madeira de *pinus pinaster ait*, Mestrado em Engenharia Mecânica, FEUP, 2006, P M S T de Castro - membro do júri
- Filipe José Palhares Chaves, “Application of adhesive bonding in OPVC Windows”, Mestrado em Design Industrial, FEUP, 2006, P M S T de Castro - membro do júri e co-orientador
- Vitor Manuel Monteiro Borges da Mota, “Investigations on surface damage by rolling contact fatigue in elasto-hydrodynamic contacts using artificial dents”, Mestrado em Manutenção Industrial, FEUP, 2006, P M S T de Castro, membro do júri
- Sérgio Manuel Coimbra Lemos, “Artefactos economizadores de espaço”, Mestrado em *Design*, Universidade de Aveiro, 8 de Junho de 2006, P M S T de Castro - membro do júri e arguente

6.4. Participação em comités editoriais de revistas científicas

- *Mechanika* (ISSN 1392-1207)
- *Fatigue and Fracture of Engineering Materials and Structures* (ISSN 8756-758X)
- *Boletim da Universidade do Porto* (ISSN 0871-7249)

6.5. Avaliação de artigos de revistas científicas

- *International Journal of Fatigue*

6.6. Outras avaliações

- AdI
- FCT
- FLAD

6.7. Participação em comissões científicas de conferências

- 8th Mesomechanics Conference, Porto, Portugal, (co-organizador, com G C Sih), July 19-22, 2006,
- Comptest'2006 Composites Testing and Model Identification 2006, Porto, Portugal, April 10-12, 2006 (member of Scientific Committee)
- 10th Portuguese Conference on Fracture, Guimarães, Portugal, February 22-24, 2006 (co-organizador)

- EUROMECH Colloquium 473 - Fracture of Composite Materials, Porto, Portugal, October 27-29, 2005, (chairpersons: A.T. Marques Claude Bathias Alfredo Manuel Balaco de Morais, Paulo M S Tavares de Castro)

7. ALGUMAS DESLOCAÇÕES PROFISSIONAIS

- *P M S T de Castro*
 - Prague, Czech Republic, Masarykova kolej, Dec. 1-2, 2006
 - Emmeloord, The Netherlands, NLR, 27-28 Sept 06
 - Ithaca, NY, USA, Cornell University, Sept 9, 2006
 - Suresnes, Paris, France, EADS Corporate Research Center, 27-28 Mar 06
 - San Antonio, Texas, USA, March 12-16, 2006

- *P M G P Moreira*
 - Emmeloord, The Netherlands, NLR, 27-28 Sept 06
 - Atlanta, USA, Fatigue 2006 Congress, May 14-19, 2006
 - Suresnes, Paris, France, EADS Corporate Reserarch Center, 27-28 Mar 06
- *S M O Tavares*
 - Emmeloord, The Netherlands, NLR, 27-28 Sept 06
 - Vienna, Austria, Aeronautics Days 2006, 19-21 June 2006
 - Suresnes, Paris, France, EADS Corporate Reserarch Center, 27-28 Mar 06

Anexo
IMPACTO - Algumas citações recentes de trabalhos científicos

Citações de: DE MATOS PFP, MOREIRA PMGP, CAMANHO PP, DE CASTRO PMST, Numerical simulation of cold working of rivet holes, FINITE ELEMENTS IN ANALYSIS AND DESIGN, 41 (9-10): 989-1007 MAY 2005

- de Matos PFP, Moreira PMGP, Nedbal I, et al., Reconstitution of fatigue crack growth in Al-alloy 2024-T3 open-hole specimens using microfractographic techniques, ENGINEERING FRACTURE MECHANICS 72 (14): 2232-2246 SEP 2005

Citações de: PINA JCP, DIAS AM, DE MATOS PFP, MOREIRA PMGP, DE CASTRO PMST., Residual stress analysis near a cold expanded hole in a textured Alclad sheet using X-ray diffraction, EXPERIMENTAL MECHANICS, 45 (1): 83-88 FEB 2005

- de Matos PFP, Moreira PMGP, Nedbal I, et al., Reconstitution of fatigue crack growth in Al-alloy 2024-T3 open-hole specimens using microfractographic techniques, ENGINEERING FRACTURE MECHANICS 72 (14): 2232-2246 SEP 2005

Citações de: DE MORAIS AB, REBELO CC, DE CASTRO PMST, et al. , Interlaminar fracture studies in Portugal: past, present and future, FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES, 27: 767-773 2004

- Szekrenyes A, Uj J, Mode-II fracture in E-glass-polyester composite, JOURNAL OF COMPOSITE MATERIALS 39 (19): 1747-1768 2005

Citações de: MOREIRA PMGP, DE MATOS PFP, PINHO ST, PASTRAMA SD, CAMANHO PP, DE CASTRO PMST, The residual stress intensity factors for cold-worked cracked holes: a technical note, FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES, 27 (9): 879-886 SEP 2004

- de Matos PFP, Moreira PMGP, Camanho PP, et al., Numerical simulation of cold working of rivet holes, FINITE ELEMENTS IN ANALYSIS AND DESIGN 41 (9-10): 989-1007 MAY 2005

Citações de: PEREIRA AB, DE MORAIS AB, MARQUES AT, et al. , Mode II interlaminar fracture of carbon/epoxy multidirectional laminates, COMPOSITES SCIENCE AND TECHNOLOGY, 64 (10-11): 1653-1659 AUG 2004

- Kim MH, Rhee KY, Paik YN, et al., A study on the fracture characteristics of plasma-treated graphite/epoxy laminated composites, KEY ENGINEERING MATERIALS 321-323: 869-872 2006
- Pereira AB, de Moraes AB, Mixed mode I+II interlaminar fracture of glass/epoxy multidirectional laminates - Part 2: Experiments, COMPOSITES SCIENCE AND TECHNOLOGY 66 (13): 1896-1902 OCT 2006
- Kuboki T, Gallagher E, Jar PYB, et al., A new method to quantify delamination resistance of fibre reinforced polymers (FRP) under transverse loading, APPLIED COMPOSITE MATERIALS 12 (2): 93-108 MAR 2005

Citações de: DE CASTRO PMST, FERNANDES AA Methodologies for failure analysis: a critical survey, *MATERIALS & DESIGN*, 25 (2): 117-123 APR 2004

- Darlington JF, Booker JD, Development of a design technique for the identification of fatigue initiating features, *ENGINEERING FAILURE ANALYSIS* 13 (7): 1134-1152 OCT 2006

Citações de: GONCALVES JPM, DE MOURA MFSF, MAGALHAES AG, DE CASTRO PMST , Application of interface finite elements to three-dimensional progressive failure analysis of adhesive joints *FATIGUE & FRACTURE OF ENGINEERING MATERIALS& STRUCTURES* 26: 479-486 2003

- Lucas F. M. da Silva, T. N. S. S. Rodrigues, M. A. V. Figueiredo, M. F. S. F. de Moura, J. A. G. Chousal. Effect of Adhesive Type and Thickness on the Lap Shear Strength, *THE JOURNAL OF ADHESION*, Volume 82, Number 11, November 2006, pp. 1091 - 1115
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