

Bibliography

- [1] R.E. Peterson (1938), "Methods of correlating data from fatigue tests on stress concentration factor", in S. Timoshenko Anniversary Volume, MC Milan New York
- [2] B.F. Langer (1971), "Design of vessels involving fatigue" Pressure Vessel Engineering Technology (Ed. R.W. Nichols) Applied Science Pub Ltd London
- [3] Y.C. D'Escatha, J.C. Devaux, J.L. Bernard, A. Pelissier-Tanon (1980), "A criterion for analysing fatigue crack initiation in geometrical singularities" IMechE 1980
- [4] C. Amzallag, P. Rabbe (1974), "Etude de l'amorçage des fissures et de la vitesse de fissuration par fatigue de quelques aciers austénitiques" 13ème journée des Aciers spéciaux. Revue de Métallurgie Décembre 1974
- [5] K. Saanouni, C. Bathias (1982), "Study of fatigue crack initiation in the vicinity of notches" Engng. Fract. Mech., Vol.16, pp. 695-706
- [6] F. Billon (1980), "Calcul de structures en plasticité cyclique et amorçage de fissures" Thèse de Docteur-Ingénieur à l'Université de Paris VI
- [7] Stromboni (1984), "Propagation de fissures courtes sous concentration de contraintes à haute température dans le cas d'un acier austénitique 316L" Thèse de doctorat à l'Ecole Centrale de Paris
- [8] M. Truchon (1982), "Application of low cycle fatigue test results to crack initiation for notches" ASTM STP 770.[69]
- [9] R. Roche (1987), "The use of elastic computation for analysing fatigue damage" 9th SMiRT Lausanne
- [10] D. Moulin, B. Autrusson, B. Barrachin (1987), "Fatigue analysis methods of cracklike defects: strain range evaluation" 9th SMiRT Lausanne
- [11] B. Autrusson, D. Moulin, B. Barrachin, D. Acker (1988), "Fatigue analysis of cracklike defects: experimental verification of practical rules to predict initiation" 6th ICPVT Beijing China
- [12] Lucien Laiarinandrasana, Amorçage de fissure à haute température dans un acier inoxydable austénitique, Thèse de doctorat de l'Ecole Nationale Supérieure des Mines de Paris en Sciences et Génie des Matériaux, soutenue à Paris le 25 Novembre 1994.
- [13] M. Creager (1966), "The elastic stress field near tip of a blunt crack" Thesis Lehigh University
- [14] H. Neuber (1961), "Theory of stress concentration for shear strained prismatic bodies with arbitrary non-linear stress-strain law" Trans. ASME, J. Of Appl. Mech., Dec.1961, pp. 544-550
- [15] RCC-MRx Annexe A3 – edition 2018

- [16] RCC-MRx. Design and construction rules for mechanical components of Nuclear installations, AFCEN; 2018.
- [17] EN 10028 -2, Flat products made of steels for pressure purposes, Part 2, Non-alloy and alloy steels with specified elevated temperature properties, 2009
- [18] EN 10028-7, Flat products made of steels for pressure purposes, Part 7, Stainless steels. 2007
- [19] EN 10216 -2 Seamless steel tubes for pressure purposes - Technical delivery conditions - Part 2: Non-alloy and alloy steel tubes with specified elevated temperature properties, 2013
- [20] FprEN 10371:2020 Metallic materials - Small punch test method, Technical Committee CEN/TC 459/SC 1 "Test methods for steel (other than chemical analysis)", AFNOR, 2020.
- [21] M. Bruchhausen, T. Austin, S. Holmström, E. Altstadt, P. Dymacek, S. Jeffs, R. Lancaster, R. Lacalle, K. Matocha, European standard on small punch testing of metallic materials. Proceedings of the ASME 2017 Pressure Vessels and Piping Conference, PVP2017 July 16-20, 2017, Waikoloa, Hawaii, USA, 2017.
- [22] Malerba, L. Bertolus, M., Nilsson, K-F. Materials For Sustainable Nuclear Energy, The Strategic Research Agenda (SRA) of the Joint Programme on Nuclear Materials (JPNM) of the European Energy Research Alliance (EERA), EUR 29740 EN, 2019.
- [23] S. Holmström, Y. Li, P. Dymacek, E. Vacchieri, S.P. Jeffs, R.J. Lancaster, D. Omacht, Z. Kubon, E. Anelli, J. Rantala, A. Tonti, S. Komazaki, Naveena, M. Bruchhausen, R.C. Hurst, P. Hähner, M. Richardson, D. Andres, Creep strength and minimum strain rate estimation from Small Punch Creep tests, *Materials Science and Engineering: A*, Volume 731, 2018, Pages 161-172, ISSN 0921-5093, <https://doi.org/10.1016/j.msea.2018.06.005>.
- [24] M. Kapusnak, J. Petzova, M. Brezina, M. Adameh, Interim results of the reactor pressure vessel materials evaluation within the framework of the implemented Advanced Surveillance Specimen Programme. Conf. Proc. 5th International Small Sample Test Techniques Conference SSTT 2018, 10-12 July 2018, Swansea University, Swansea, (2018), pp.58-66.
- [25] S. Komazaki, K. Obata, M. Tomobe, M. Yaguchi, A. Kumada, , 2018. SP creep properties of Gr.91 boiler pipings service-exposed in different USC power plants. *Ubiquity Proceedings*, 1(S1), p.31. DOI: <http://doi.org/10.5334/uproc.31>
- [26] R. Lancaster, G. Davies, H. Illsley, S. Jeffs, G. Baxter, Structural integrity of an electron beam melted titanium alloy, *Materials* 9 (6) (2016) 470, <https://doi.org/10.3390/ma9060470>.
- [27] <https://www.sciencedirect.com/science/article/pii/S0167844216301677>
- [28] J. Torres-Caceres, "A Framework for Miniaturized Mechanical Characterization of Tensile, Creep, and Fatigue Properties of SLM Alloys" (2018). *Electronic Theses and Dissertations*. 5833. <https://stars.library.ucf.edu/etd/5833>

- [29] T. E. García, C. Rodríguez, F. J. Belzunce, and C. Suárez, "Estimation of the mechanical properties of metallic materials by means of the small punch test," *Journal of Alloys and Compounds*, vol. 582, pp. 708-717, 2014.
- [30] K. Milička and F. Dobeš, "Small punch testing of P91 steel," *International Journal of Pressure Vessels and Piping*, vol. 83, no. 9, pp. 625-634, 2006.
- [31] R. C. Hurst, R. J. Lancaster, S. P. Jeffs, and M. R. Bache, "The contribution of small punch testing towards the development of materials for aero-engine applications," *Theoretical and Applied Fracture Mechanics*, vol. 86, pp. 69-77, 2016
- [32] E. Altstadt, M. Serrano, M. Houska, and A. García-Junceda, "Effect of anisotropic microstructure of a 12Cr-ODS steel on the fracture behaviour in the small punch test," *Materials Science and Engineering: A*, vol. 654, pp. 309-316, 1/27/ 2016.
- [33] M. Fernández, C. Rodríguez, F. J. Belzunce, and T. E. García, "Use of small punch test to estimate the mechanical properties of powder metallurgy products employed in the automotive industry" *Powder Metallurgy*, vol. 58, no. 3, pp. 171-177, 2015/07/01 2015.
- [34] E. Altstadt, M. Serrano, M. Houska, and A. García-Junceda, "Effect of anisotropic microstructure of a 12Cr-ODS steel on the fracture behaviour in the small punch test," *Materials Science and Engineering: A*, vol. 654, pp. 309-316, 1/27/ 2016.
- [35] M. Bruchhausen et al., "Recent developments in small punch testing: Tensile properties and DBTT," *Theoretical and Applied Fracture Mechanics*, vol. 86, Part A, pp. 2-10, 12//2016.
- [36] I. Simonovski, S. Holmström, and M. Bruchhausen, "Small punch tensile testing of curved specimens: Finite element analysis and experiment," *International Journal of Mechanical Sciences*, vol. 120, pp. 204-213, 1// 2017.
- [37] M. Abendroth and S. Soltysiak, "Assessment of Material Properties by Means of the Small Punch Test," in *Recent Trends in Fracture and Damage Mechanics*, G. Hütter and L. Zybelle, Eds.: Springer International Publishing, 2016, pp. 127-157.
- [38] J. D. RIERA, "On the stress analysis of structures subjected to aircraft impact forces," *Nuclear Engineering and Design*, 8:415-426, 1968
- [39] Electric Power Research Institute, Program on Technology Innovation: "The Effects of High Frequency Ground Motion on Structures, Components, and Equipment in Nuclear Power Plants", EPRI Report 1015108, Palo Alto, USA, 2007
- [40] V. Vlaski, A. Fila, O. Schneider and D. Papandreou, Reduction of External Hazard (Fast Impact) Induced Vibrations, 1st Conference on Technical Innovation in Nuclear Civil Engineering TINCE, Paris, 2013
- [41] G. Herve, Improvement of the evaluation of high frequency content in the calculation of impact floor response spectra, In: 2nd Conference on Technical Innovation in Nuclear Civil Engineering TINCE, Paris, 2014
- [42] S. Singh and A. Gupta, Effect of High-Frequency Seismic Motions on Electrical Equipment in Nuclear Power Plants, Transactions, SMiRT-25 Charlotte, NC, USA, August 4-9, 2019

- [43] EPRI, High frequency program: Application guidance for functional confirmation and fragility evaluation, Palo Alto, CA, 2015
- [44] Improvement of the evaluation of high frequency content in the calculation of impact floor response spectra, Presentation at PG3 meeting, document CEN-WS064Phase3-PG3_N20_PG3_N020_GHS_-_TINCE-2014_full-I-95.pdf
- [45] Non-Linear Equivalent Floor Response Spectra Calculation Taking into Account the Small Amplitude of High Frequency Motions, Presentation at PG3 meeting, document CEN-WS064Phase3-PG3_N21_PG3_N021_GHS_-_TINCE_GHERVE_2016-09-08_modif.pdf
- [46] Feedback on the consequences of HF vibrations for SSCs functionality , Presentation at PG3 meeting, document CEN-WS064Phase3-PG3_N23_PG3_N023_Anthony_DARRABA_-_CEN_2019.11.25_HF-vibrations.pdf
- [47] Reduction of External Hazard (Fast Impact) Induced Vibrations, Presentation at PG3 meeting, document EN-WS064Phase3-PG3_N24_PG3_N024_TINCE-APC.pdf
- [48] Seismic Response of Electrical Equipment in Nuclear Power Plants, Presentation at PG3 meeting, document CEN-WS064Phase3-PG3_N25_PG3_N025_Gupta.pdf
- [49] Proposal for Cut-Off Procedure in the High Frequency Range of FRS due to APC Induced Vibrations, Presentation at PG3 meeting, document CEN-WS064Phase3 PG3_N26_PG3_N026_APC-Proposal-1.pdf
- [50] Proposal for Cut-Off Procedure in the High Frequency Range of FRS due to APC Induced Vibrations, Presentation at PG3 meeting, document CEN-WS064Phase3-PG3_N27_PG3_N027_APC-Proposal-2.pdf
- [51] Energy content study of floor response spectra compared to IEEE-382-2006 CEN-WS064 Phase3, Presentation at PG3 meeting, document PG3_N35_PG3_N035_Energy_content_study_of_floor_response_spectra_compared_t o_IEEE-382-2006.pdf
- [52] Optimizing the analysis of airplane crash induced spectra by means of generic airplane methodology, Presentation at PG3 meeting, document CEN-WS064Phase3-PG3_N36_PG3_N036_SMiRT-22_GHERVE-CROUZAUD_paper.pdf
- [53] RELATIONSHIP BETWEEN PSD AND ELASTIC-RESPONSE SPECTRUM LINK BETWEEN CUT-OFF FREQUENCY AND ENERGY CONTENT, Presentation at PG3 meeting, document CEN-WS064Phase3-PG3_N39_PG3_N039_PSD-FRS_relationship-GHS_2020-02-21.pdf
- [54] CALCULATION OF FRS TAKING INTO ACCOUNT THE SMALL AMPLITUDE OF HIGH FREQUENCY MOTIONS, Presentation at PG3 meeting, document CEN-WS064Phase3-PG3_N40_PG3_N040_CUT-OFF-GHS_2020-02-21.pdf
- [55] Proposal for Cut-Off Procedure in the High Frequency Range of FRS due to APC Induced Vibrations, Presentation at PG3 meeting, document CEN-WS064Phase3-PG3_N81_PG3_N081_2021-05-25_Cut-Off.pdf

- [56] Proposal for Cut-Off Procedure in the High Frequency Range of FRS due to APC Induced Vibrations, Presentation at PG3 meeting, document EN-WS064Phase3-PG3_N91_PG3_N091_Cut-Off.pdf.
- [57] DIN 25449, Reinforced and prestressed concrete components in nuclear facilities - Safety concept, actions, design and construction, Beuth Verlag, Berlin, 2016
- [58] Eurocode 8: Design provisions for earthquake resistance of structures, European Committee for Standardization, Brussels, 2003
- [59] PG3 Presentation "Proposal for RCC-CW Formulation for Continuation of Reinforcement", document CEN-WS064Phase3-PG3_N94_PG3_N094_Reinf_Cont_update.pdf, 2021
- [60] EN ISO 15835-1:2018, Steels for the reinforcement of concrete — Reinforcement couplers for mechanical splices of bars, Technical Committee ISO/TC 17/SC 16 S, 2018
- [61] PG3 Presentation at the 3rd meeting, CEN-WS064Phase3- PG3 N028-IRSN-Effect of basemat uplift on design methodology-V2.
- [62] PG3 Presentation at the 4th meeting, CEN-WS064Phase3- PG3 N041-Uplift effect of base slab.
- [63] PG3 Presentation at the 6th meeting, CEN-WS064Phase3- PG3 N061-ENSI- Foundation Uplift.
- [64] PG3 Presentation at the 6th meeting, CEN-WS064Phase3- PG3 N062-action4.1 Uplift.
- [65] PG3 Presentation at the 8th meeting, CEN-WS064Phase3- PG3 N127-Uplift effect on base slab – V2.
- [66] Presentation at PG3/WOG1 meeting, CEN-WS064Phase3- PG3 N123-meeting Uplift_Intro.
- [67] Presentation at PG3/WOG1 meeting, CEN-WS064Phase3- PG3 N124-meeting Uplift_Phenomena.
- [68] Presentation at PG3/WOG1 meeting, CEN-WS064Phase3- PG3 N125-meeting Uplift_Codes.
- [69] Presentation at PG3/WOG1 meeting, CEN-WS064Phase3- PG3 N126-meeting Uplift_Comments NP TS.
- [70] Paper, CEN-WS064Phase3- PG3 N128-Update Uplift (2022-04-14).
- [71] CEB (1988) Bulletin d'information N° 87 "Concrete structures under impact and impulsive loading. Synthesis report." August 1988
- [72] Koechlin P., Potapov S. (2009) "Classification of soft and hard impacts – Application to aircraft crash." Nuclear Engineering and Design, 239 (2009) 613-618
- [73] Riera J.D. (1968) "On the stress analysis of structures subjected to aircraft impact forces." Nuclear Engineering and Design, 8, 515-426

- [74] Siefert A., Henkel F.O. (2014) "Nonlinear analysis of commercial aircraft impact on a reactor building—Comparison between integral and decoupled crash simulation." Nuclear Engineering and Design, 269 (2014) 130– 135.
- [75] T. Sugano et al. (1993) "Local damage to reinforced concrete structures caused by impact of aircraft engine missiles. Part 2. Evaluation of tests results." Nuclear Engineering and Design, 140, 407-423.
- [76] Tarallo F., Rambach J.M., (2013). "Some lessons learned from tests of VTT IMPACT program, phases I and II." Transactions of SMiRT-22, San Francisco, CA, USA.
- [77] Tarallo F. et al. (2019). "Reinforced concrete slab under soft impact at medium speed: lessons learned from VTT IMPACT project." Transactions of SMiRT-25, Charlotte, NC, USA.
- [78] PTAN RX 17006 Guide for introducing a new material in the RCC-MRx (AFCEN publication)
- [79] CEN-WS064PHASE3-PG2_N36_PTAN Weld Materials
- [80] CEN-WS064PHASE3-PG2_N55_Guide for new materials in the RCC-MRx
- [81] CEN-WS064PHASE3-PG2_N57_Welds properties in RCC-MRx
- [82] CEN-WS064PHASE3-PG2_N58_PTAN New Mat A3+A9
- [83] CEN-WS064PHASE3-PG2_N71_welds properties in RCC-MRx
- [84] CEN-WS064PHASE3-PG2_N73_PTAN_NewMatA3A9
- [85] CEN-WS064PHASE3-PG2_N88_PTAN_NewMatA3A9
- [86] CEN-WS064PHASE3-PG2_N102_PTAN_NewMatA3A9
- [87] L. Forest, Report on weld specimen preparation for residual stress measurements and
- [88] modelling, Deliverable D2.4, Rev. B, GEMMA Euratom Horizon 2020 collaboration project, Grant
- [89] Agreement no. 755269, April 2019.
- [90] EN 10371 - Metallic materials - Small punch test method
- [91] RCC-MRx. Design and construction rules for mechanical components of high temperature, research and fusion reactors, AFCEN; 2018.
- [92] J. Aktaa, EFDA_D_2L779C, 2014
- [93] J. Aktaa, EFDA_D_2MUG9D, 2016
- [94] J. Aktaa et al., Int. J. of Fatigue, Creep-fatigue design rules for cyclic softening steels, 2019

CWA 18008:2023 (E)

- [95] RRC-MRx edition 2018
- [96] A. Martin et al. Efficiency diagram, alternative rule for ratchetting: Historical background, overview, ongoing developments, PVP 2018-84161.
- [97] PG3 Presentation at the 3rd meeting, CEN-WS064Phase3- PG3 N022-IRSN-Design criteria-APC-V1
- [98] PG3 presentation at the 5th meeting, CEN-WS064Phase3-PG3 N50 PG3 N050 APC Requirements SZT v2
- [99] PG3 presentation at the 7th meeting, CEN-WS064Phase3-PG3 N071 8 March 2021 APC-ENSI S.Ghadimi and T.Szczesiak
- [100] PG3 Presentation at the 8th meeting, CEN-WS064Phase3- PG3 N082-2021-05-25 IRSN-APC Topics T1 and T4
- [101] EDF/SEPTEN code RCC-G édition juillet 1988 - Règles de conception et de construction du génie civil des îlots nucléaires REP
- [102] KTA Safety standard (draft)- KTA 2203 ENG December 1983 - Protection of nuclear power plants against aircraft crash – Design of structural facilities
- [103] EDF/SEPTEN code ETC-C (2006). EPR Technical Code for Civil works, ind. B. , France, 2nd May 2006
- [104] IAEA Safety Report 87 – 2018 - Safety Aspects of Nuclear Power Plants in Human Induced External Events - Assessment of structures P1769
- [105] The Nuclear Energy Institute (NEI), NEI 07-13 Revision 8, "Methodology for Performing Aircraft Impact Assessments for New Plant Designs", 2011
- [106] U.S. Nuclear Regulatory Commission (NRC), Regulatory Guide 1.217, "Guidance for the Assessment of Beyond-Design-Basis Aircraft Impacts", Office of Nuclear Regulatory Research, 2011
- [107] CEB (1988) Bulletin d'information N° 187 "Concrete structures under impact and impulsive loading. Synthesis report." August 1988
- [108] "Comparison of rules-making and practices concerning RPV integrity assessment", ETSON study performed in 2018
- [109] R.E. Peterson (1938) : "Methods of correlating data from fatigue tests on stressconcentration factor", in S. Timoshenko Anniversary Volume, MC Milan New York.
- [110] B.F. Langer (1971) : "Design of vessels involving fatigue" Pressure Vessel Engineering Technology (Ed. R.W. Nichols) Applied Science Pub Ltd London.
- [111] Y.C. D'Escatha, J.C. Devaux, J.L. Bernard, A. Pelissier-Tanon (1980) : "A criterion for analysing fatigue crack initiation in geometrical singularities" IMechE 1980.
- [112] C. Amzallag, P. Rabbe (1974) : "Etude de l'amorçage des fissures et de la vitesse de fissuration par fatigue de quelques aciers austénitiques" 13ème journée des Aciers spéciaux. Revue de Métallurgie Décembre 1974.

- [113] K. Saanouni, C. Bathias (1982) : "Study of fatigue crack initiation in the vicinity of notches" Engng. Fract. Mech., Vol.16, pp. 695-706.
- [114] F. Billon (1980) : "Calcul de structures en plasticité cyclique et amorçage de fissures" Thèse de Docteur-Ingénieur à l'Université de Paris VI.
- [115] A. Stromboni (1984) : "Propagation de fissures courtes sous concentration de contraintes à haute température dans le cas d'un acier austénitique 316L" Thèse de doctorat à l'Ecole Centrale de Paris.
- [116] M. Truchon (1982) : "Application of low cycle fatigue test results to crack initiation for notches" ASTM STP 770.[69].
- [117] R. Roche (1987) : "The use of elastic computation for analysing fatigue damage" 9th SMiRT Lausanne.
- [118] D. Moulin, B. Atrusson, B. Barrachin (1987) : "Fatigue analysis methods of cracklike defects : strain range evaluation" 9th SMiRT Lausanne
- [119] B. Atrusson, D. Moulin, B. Barrachin, D. Acker (1988) : "Fatigue analysis of cracklike defects : experimental verification of practical rules to predict initiation" 6thICPVT Beijing China.
- [120] Lucien Laiarinandrasana, Amorçage de fissure à haute température dans un acier inoxydable austénitique, Thèse de doctorat de l'Ecole Nationale Supérieure des Mines de Paris en Sciences et Génie des Matériaux, soutenue à Paris le 25 Novembre 1994.
- [121] M. Creager (1966) : "The elastic stress field near tip of a blunt crack" Thesis Lehigh University.
- [122] H. Neuber (1961) : "Theory of stress concentration for shear strained prismatic bodieswith arbitrary non-linear stress-strain law" Trans. ASME, J. Of Appl. Mech., Dec.1961, pp. 544-550.
- [123] RCC-MRx Annexe A3 – edition 2018. References
- [124] Dahlberg M, Nilsson K-F, Taylor N, Faidy C, Wilke U, Chapuliot S, et al. Development of a European procedure for assessment of high cycle thermal fatigue in light water reactors: final report of the NESC-thermal fatigue project, NESC network report NESC-06-04. European Commission EUR 22763 EN June; 2007.
- [125] International Atomic Energy Agency. Validation of fast reactor thermomechanical and thermohydraulic codes, IAEA-TECDOC-1318, IAEA, Vienna; 2002.
- [126] Paffumi E, Radu V. Status on the knowledge on cracks evolution under loadings from a thermal spectrum. Crack propagation and possible arrest/penetration, NULIFE (09) 10, JRC53157, Scientific and technical report, April; 2009
- [127] Faidy C. European procedure for thermal fatigue analysis of mixing Tees, Prepared by EDF- SEPTEN France, with the contribution of: Sweden, PSI Switzerland, JRC EC, CEA-Saclay France, UK, EON Germany, TRACTEBEL Belgique, Finland, Netherland; 2007.

- [128] E. Paffumi, V. Radu, K.-F. Nilsson, Thermal fatigue striping damage assessment from simple screening criterion, *International Journal of Fatigue* 53 (2013) 92–104
- [129] Jones IS. The frequency response model of thermal striping for cylindrical geometries. *Fatigue Fract Eng Mater Struct* 1997; 20(6):871–82.
- [130] Jones IS, Lewis MW. A frequency response method for calculating stress intensity factors due to thermal striping loads. *Fatigue Fract Eng Mater Struct* 1994; 17(6):709–20.
- [131] EN 10371:2021 Metallic materials - Small punch test method, Technical Committee CEN/TC 459/SC 1 "Test methods for steel (other than chemical analysis)", AFNOR, 2021.
- [132] RCC-MRx. Design and construction rules for mechanical components of Nuclear installations, AFCEN; 2018.
- [133] S. Holmström, Z. Szaraz, E. Kappou¹, E. De Bruycker, Material property determination and remaining life assessment by small punch testing, Conference on "Life Management and Maintenance for Power Plants" Baltica XI proceedings. 11-13 June, 2019 VTT Finland.
- [134] ASTM E3205 – 20, Standard Test Method for Small Punch Testing of Metallic Materials,
- [135] M. Bruchhausen, T. Austin, S. Holmström, E. Altstadt, P. Dymacek, S. Jeffs, R. Lancaster, R. Lacalle, K. Matocha, European standard on small punch testing of metallic materials. Proceedings of the ASME 2017 Pressure Vessels and Piping Conference, PVP2017 July 16-20, 2017, Waikoloa, Hawaii, USA, 2017.
- [136] Malerba, L. Bertolus, M., Nilsson, K-F. Materials For Sustainable Nuclear Energy, The Strategic Research Agenda (SRA) of the Joint Programme on Nuclear Materials (JPNM) of the European Energy Research Alliance (EERA), EUR 29740 EN, 2019.
- [137] S. Holmström, Y. Li, P. Dymacek, E. Vacchieri, S.P. Jeffs, R.J. Lancaster, D. Omacht, Z. Kubon, E. Anelli, J. Rantala, A. Tonti, S. Komazaki, Naveena, M. Bruchhausen, R.C. Hurst, P. Hähner, M. Richardson, D. Andres, Creep strength and minimum strain rate estimation from Small Punch Creep tests, *Materials Science and Engineering: A*, Volume 731, 2018, Pages 161-172, ISSN 0921-5093, <https://doi.org/10.1016/j.msea.2018.06.005>.
- [138] M. Kapusnak, J. Petzova, M. Brezina, M. Adameh, Interim results of the reactor pressure vessel materials evaluation within the framework of the implemented Advanced Surveillance Specimen Programme. Conf. Proc. 5th International Small Sample Test Techniques Conference SSTT 2018, 10-12 July 2018, Swansea University, Swansea, (2018), pp.58-66.
- [139] S. Komazaki, K. Obata, M. Tomobe, M. Yaguchi, A. Kumada, , 2018. SP creep properties of Gr.91 boiler pipings service-exposed in different USC power plants. *Ubiquity Proceedings*, 1(S1), p.31. DOI: <http://doi.org/10.5334/uproc.31>
- [140] R. Lancaster, G. Davies, H. Illsley, S. Jeffs, G. Baxter, Structural integrity of an electron beam melted titanium alloy, *Materials* 9 (6) (2016) 470, <https://doi.org/10.3390/ma9060470>.

- [141] <https://www.sciencedirect.com/science/article/pii/S0167844216301677>
- [142] J. Torres-Caceres, "A Framework for Miniaturized Mechanical Characterization of Tensile, Creep, and Fatigue Properties of SLM Alloys" (2018). Electronic Theses and Dissertations. 5833. <https://stars.library.ucf.edu/etd/5833>
- [143] T. E. García, C. Rodríguez, F. J. Belzunce, and C. Suárez, "Estimation of the mechanical properties of metallic materials by means of the small punch test," *Journal of Alloys and Compounds*, vol. 582, pp. 708-717, 2014.
- [144] K. Milička and F. Dobeš, "Small punch testing of P91 steel," *International Journal of Pressure Vessels and Piping*, vol. 83, no. 9, pp. 625-634, 2006.
- [145] R. C. Hurst, R. J. Lancaster, S. P. Jeffs, and M. R. Bache, "The contribution of small punch testing towards the development of materials for aero-engine applications," *Theoretical and Applied Fracture Mechanics*, vol. 86, pp. 69-77, 2016
- [146] E. Altstadt, M. Serrano, M. Houska, and A. García-Junceda, "Effect of anisotropic microstructure of a 12Cr-ODS steel on the fracture behaviour in the small punch test," *Materials Science and Engineering: A*, vol. 654, pp. 309-316, 1/27/ 2016.
- [147] M. Fernández, C. Rodríguez, F. J. Belzunce, and T. E. García, "Use of small punch test to estimate the mechanical properties of powder metallurgy products employed in the automotive industry" *Powder Metallurgy*, vol. 58, no. 3, pp. 171-177, 2015/07/01 2015.
- [148] E. Altstadt, M. Serrano, M. Houska, and A. García-Junceda, "Effect of anisotropic microstructure of a 12Cr-ODS steel on the fracture behaviour in the small punch test," *Materials Science and Engineering: A*, vol. 654, pp. 309-316, 1/27/ 2016.
- [149] M. Bruchhausen et al., "Recent developments in small punch testing: Tensile properties and DBTT," *Theoretical and Applied Fracture Mechanics*, vol. 86, Part A, pp. 2-10, 12//2016.
- [150] I. Simonovski, S. Holmström, and M. Bruchhausen, "Small punch tensile testing of curved specimens: Finite element analysis and experiment," *International Journal of Mechanical Sciences*, vol. 120, pp. 204-213, 1// 2017.
- [151] M. Abendroth and S. Soltysiak, "Assessment of Material Properties by Means of the Small Punch Test," in *Recent Trends in Fracture and Damage Mechanics*, G. Hütter and L. Zymbell, Eds.: Springer International Publishing, 2016, pp. 127-157.
- [152] E. Anelli, S. Holmström, Heavy wall forged pipes of grade 92: effect of heat treatment conditions on microstructure and creep resistance, *Proceedings of ECCC Conference 2021 (Online)*, to be published.
- [153] S. Holmström, K.F Nilsson¹, D. Baraldi, E. De Bruycker, E. Anelli, A. Guery, J. Rantala, A. Tonti, Estimation of uniaxial and creep properties by small punch testing in support of ECCC test programmes. , *Proceedings of ECCC Conference 2021 (Online)*, to be published.
- [154] STRUCTURAL ROBUSTNESS DESIGN FOR PRACTISING ENGINEERS T. D. Gerard Canisius COST EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY COST Action TU0601 – Robustness of Structures

- [155] Faber M.H., Kübler O., Fontana M. & Knobloch M. (2004) Failure Consequences and Reliability Acceptance Criteria for Exceptional Building Structures, IBK-Report No.
- [156] ISBN 3-7281-2976-3, vdf Hochschulverlag AG, 285, 2004. July
- [157] Feng, Y. S., and Moses, F. (1986). "Optimum design, redundancy and reliability of structural systems." *Computers & Structures*, 24(2), 239-251.
- [158] Frangopol, D. M., and Curley, J. P. (1987). "Effects of damage and redundancy on structural reliability." *ASCE Journal of Structural Engineering*, 113(7), 1533-1549.
- [159] JCSS - Joint Committee on Structural Safety (2008). Risk Assessment in Engineering Principles, System Representation & Risk Criteria. JCSS Publication, <http://www.jcss.ethz.ch/>.
- [160] Schubert, M. and Faber, M.H. (2008) On the Modeling and Analysis of Robustness of Structures, Proceedings of the Inaugural International Conference of the Engineering Mechanics Institute, Minneapolis, USA, May 18-21, 2008.
- [161] JCSS (2008) Risk Assessment in Engineering Principles, System Representation & Risk Criteria JCSS Joint Committee on Structural Safety Edited by M. H. Faber, June, 2008
- [162] IAEA SRS 82 "Ageing management for nuclear power plants: international generic ageing lessons learned (IGALL)"
- [163] IAEA Safety Guide NS-G-2.12 "Ageing management for nuclear power plants"
- [164] IAEA Safety Guide NS-G-2.6 "Maintenance, Surveillance and In-service Inspection in NPPs"
- [165] IAEA TEC DOC 1025 "Assessment and management of ageing of major nuclear power plant components important to safety: Concrete containment buildings"
- [166] IAEA Technical Report NP-T-3.5 "Ageing management of concrete structures in NPPs"
- [167] WENRA issues I and K
- [168] WENRA RHWG report, "Topical Peer Review 2017, Ageing Management Technical Specification for the National Assessment Reports", 21 December 2016.
- [169] ENSREG, Topical Peer Review 2017, Ageing Management of Nuclear Power Plants
- [170] WS64 phase II PG3/CE-3 proposal: Appendix to general part of RCC-CW, Pools for Nuclear Fuel / Safety Concept"
- [171] JWS64 phase II PG3/CE-10 proposal: Ageing Management Inspection and maintenance