References

[1] W. Chen, M. Chaturvedi, The effect of grain boundary precipitates on the creep behavior of Inconel 718, MSE A. 183(1-2) (1994) 81-89.

[2] A. Devaux, L. Nazé, R. Molins, A. Pineau, A. Organista, J. Guédou, J. Uginet, P. Héritier, Gamma double prime precipitation kinetic in Alloy 718, MSE A. 486(1-2) (2008) 117-122.

[3] M. Fisk, J.C. Ion, L.-E. Lindgren, Flow stress model for IN718 accounting for evolution of strengthening precipitates during thermal treatment, Comput. Mater. Sci. 82 (2014) 531-539.

[4] A. Malmelöv, M. Fisk, A. Lundbäck, L.-E. Lindgren, Mechanism based flow stress model for alloy 625 and alloy 718, Mater. 13(24) (2020) 5620.

[5] M.A. Moretti, L.-E. Lindgren, P. Åkerström, Physics-based flow stress model for alloy 718, Metall. Mater. Trans A. 54(5) (2023) 1985-1997.

[6] B. Hassan, J. Corney, Grain boundary precipitation in Inconel 718 and ATI 718Plus, J. Mater. Sci. Technol. 33(16) (2017) 1879-1889.

[7] G.Z. Voyiadjis, Y. Song, A physically based constitutive model for dynamic strain aging in Inconel 718 alloy at a wide range of temperatures and strain rates, Acta Mechanica 231 (2020) 19-34.

[8] J. Aktaa, C. Petersen, Modeling the constitutive behavior of RAFM steels under irradiation conditions, J. Nucl. Mater. 417(1-3) (2011) 1123-1126.

[9] S. Albert, K. Laha, A. Bhaduri, T. Jayakumar, E. Rajendrakumar, Development of IN-RAFM steel and fabrication technologies for Indian TBM, Fusion Eng. Des. 109 (2016) 1422-1431.

[10] J. Chen, Y. Liu, Y. Xiao, Y. Liu, C. Liu, H. Li, Improvement of high-temperature mechanical properties of low-carbon RAFM steel by MX precipitates, Acta Metall. Sinica (English Letters) 31 (2018) 706-712.

[11] K. Laha, S. Saroja, A. Moitra, R. Sandhya, M. Mathew, T. Jayakumar, E.R. Kumar, Development of India-specific RAFM steel through optimization of tungsten and tantalum contents for better combination of impact, tensile, low cycle fatigue and creep properties, J. Nucl. Mater. 439(1-3) (2013) 41-50.

[12] G. Liu, C. Mao, R. Ding, L. Yu, C. Liu, Y. Liu, The kinetics of dynamic recrystallization and construction of constitutive modeling of RAFM steel in the hot deformation process, J. Nucl.

Mater. 557 (2021) 153285.

[13] C. Mao, C. Liu, L. Yu, H. Li, Y. Liu, Mechanical properties and tensile deformation behavior of a reduced activated ferritic-martensitic (RAFM) steel at elevated temperatures, MSE A. 725 (2018) 283-289.

[14] V. Srinivasan, J. Vanaja, B. Choudhary, K. Laha, Modeling of creep deformation behaviour of RAFM steel, Trans. Indian Inst. Met. 69 (2016) 567-571.

[15] H. Tripathy, S. Raju, R.N. Hajra, S. Saibaba, High temperature elastic properties of reduced activation ferritic-martensitic (RAFM) steel using impulse excitation technique, Metall. Mater. Trans A. 49 (2018) 979-989.

[16] J. Christopher, B. Choudhary, Kinetics of uniaxial tensile flow and work hardening behavior of type 316L (N) austenitic stainless steel in the framework of two-internal-variable approach, Metall. Mater. Trans. A 46 (2015) 674-687.

[17] L. Esposito, N. Bonora, G. De Vita, Creep modelling of 316H stainless steel over a wide range of stress, Proc. Struct. Integr. 2 (2016) 927-933.

[18] V. Ganesan, C. Praveen, J. Christopher, G. Prasad Reddy, M. Vasudevan, Creep behavior of nuclear grade 316LN austenitic stainless steel at 873 K and 923 K, Mech. Time-Depend. Mater. 26(3) (2022) 593-610.

[19] J. Janovec, J. Blach, P. Zahumensky, V. Magula, J. Pecha, Role of intergranular precipitation in the fracture behaviour of AISI 316 austenitic stainless steel, Can. Metall. Q. 38(1) (1999) 53-59.

[20] W.-G. Kim, S.-H. Kim, W.-S. Ryu, Creep characterization of type 316LN and HT-9 stainless steels by the KR creep damage model, KSME Int. J. 15 (2001) 1463-1471.

[21] S. Krishnan, R. Nikhil, G. Sasikala, A. Moitra, S.K. Albert, A. Bhaduri, C.L. Rao, S. Vishnuvardhan, M. Saravanan, P. Gandhi, Evaluation of fracture resistance of AISI type 316LN stainless steel base and welded pipes with circumferential through-wall crack, Int. J. Press. Vessels Pip. 178 (2019) 104008.

[22] Q. Lin, X. Chen, Y. Zheng, Z. Zhang, G. Chen, B. Li, Multiaxial isothermal and thermomechanical fatigue behavior of 316LN stainless steel, Int. J. Press. Vessels Pip. 197 (2022) 104633.

[23] G.R. Johnson, A constitutive model and data for metals subjected to large strains, high strain rates and high temperatures, Proceedings of the 7th International Symposium on Ballistics,

The Hague, Netherlands, 1983, 1983.

[24] F.J. Zerilli, R.W. Armstrong, Dislocation-mechanics-based constitutive relations for material dynamics calculations, J. Appl. Phys. 61(5) (1987) 1816-1825.

[25] Y. Lin, X.-M. Chen, A combined Johnson–Cook and Zerilli–Armstrong model for hot compressed typical high-strength alloy steel, Comput. Mater. Sci. 49(3) (2010) 628-633.

[26] Y. Bergström, A dislocation model for the stress-strain behaviour of polycrystalline α-Fe with special emphasis on the variation of the densities of mobile and immobile dislocations, MSE. 5(4) (1970) 193-200.

[27] F. Barlat, M. Glazov, J. Brem, D. Lege, A simple model for dislocation behavior, strain and strain rate hardening evolution in deforming aluminum alloys, Int. J. Plast. 18(7) (2002) 919-939.

[28] L. Kubin, Y. Estrin, Evolution of dislocation densities and the critical conditions for the Portevin-Le Chatelier effect, Acta Metall. Mater. 38(5) (1990) 697-708.

[29] Y. Lin, D.X. Wen, A novel unified dislocation-density based model for hot deformation behavior of a nickel-based superalloy, AMM. 853 (2017) 117-121.

[30] X. Tang, B. Wang, Y. Huo, W. Ma, J. Zhou, H. Ji, X. Fu, Unified modeling of flow behavior and microstructure evolution in hot forming of a Ni-based superalloy, MSE A. 662 (2016) 54-64.

[31] C. Sellars, W.M. Tegart, Hot workability, Int. Met. Rev. 17(1) (1972) 1-24.

[32] H. Mecking, U. Kocks, Kinetics of flow and strain-hardening, Acta Metall. 29(11) (1981) 1865-1875.

[33] Y. Huo, Q. Bai, B. Wang, J. Lin, J. Zhou, A new application of unified constitutive equations for cross wedge rolling of a high-speed railway axle steel, J. Mater. Process. Technol. 223 (2015) 274-283.

[34] L.-E. Lindgren, Q. Hao, D. Wedberg, Improved and simplified dislocation density based plasticity model for AISI 316 L, Mech. Mater. 108 (2017) 68-76.

[35] R. Wang, M. Wang, Z. Li, C. Lu, Physics-based Constitutive Model for the Hot Deformation of 2Cr11Mo1VNbN Martensitic Stainless Steel, J. Mater. Eng. Perform. 27 (2018) 4932-4940.

[36] H. Li, Z. Zhao, H. Guo, Y. Ning, Z. Yao, Dislocation density-based model for flow behavior of a near-α titanium alloy considering effects of initial lamellar thickness, J. Mater. Eng. Perform. 28 (2019) 2477-2487.

[37] L.-E. Lindgren, K. Domkin, S. Hansson, Dislocations, vacancies and solute diffusion in physical based plasticity model for AISI 316L, Mech. Mater. 40(11) (2008) 907-919.

[38] Y. Estrin, L. Tóth, A. Molinari, Y. Bréchet, A dislocation-based model for all hardening stages in large strain deformation, Acta Mater. 46(15) (1998) 5509-5522.

[39] X. Fan, H. Yang, Internal-state-variable based self-consistent constitutive modeling for hot working of two-phase titanium alloys coupling microstructure evolution, Int. J. Plast. 27(11) (2011) 1833-1852.

[40] P. Gao, H. Yang, X. Fan, S. Zhu, Unified modeling of flow softening and globularization for hot working of two-phase titanium alloy with a lamellar colony microstructure, J. Alloys Compd. 600 (2014) 78-83.

[41] S.D. Yadav, V. Vijayanand, M. Nandgopal, G. Prasad Reddy, On the tensile flow stress response of 304 HCu stainless steel employing a dislocation density based model and electron backscatter diffraction measurements, Philos. Mag. 100(3) (2020) 312-336.

[42] Y. Estrin, H. Mecking, A unified phenomenological description of work hardening and creep based on one-parameter models, Acta Metall. 32(1) (1984) 57-70.

[43] M. McLean, B. Dyson, Modeling the effects of damage and microstructural evolution on the creep behavior of engineering alloys, J. Eng. Mater. Technol. 122(3) (2000) 273-278.

[44] Y. Yin, R. Faulkner, Continuum damage mechanics modelling based on simulations of microstructural evolution kinetics, J. Mater. Sci. Technol. 22(8) (2006) 929-936.

[45] N. Bonora, L. Esposito, Mechanism based unified creep model incorporating damage, ASME pressure vessels and piping conference, 2008, pp. 1189-1193.

[46] B. Xiao, L. Xu, L. Zhao, H. Jing, Y. Han, Deformation-mechanism-based creep model and damage mechanism of G115 steel over a wide stress range, MSE A. 743 (2019) 280-293.

[47] N.M. Ghoniem, J. Matthews, R.J. Amodeo, A dislocation model for creep in engineering materials, Res Mechanica;(UK) 29(3) (1990).

[48] E. Orowan, Problems of plastic gliding, Proceedings of the Physical Society 52(1) (1940) 8.

[49] H. Magnusson, R. Sandström, Creep strain modeling of 9 to 12 Pct Cr steels based on microstructure evolution, Metall. Mater. Trans A. 38 (2007) 2033-2039.

[50] R. Sandström, On recovery of dislocations in subgrains and subgrain coalescence, Acta Metall. 25(8) (1977) 897-904.

[51] H. Semba, B. Dyson, M. McLean, Microstructure-based creep modelling of a 9% Cr

martensitic steel, Mater. High Temp. 25(3) (2008) 131-137.

[52] Y. Kadoya, N. Nishimura, B. Dyson, M. McLean, Origins of tertiary creep in high chromium steels, 7 th International Conference on Creep and Fracture of Engineering Materials and Structures, 1997, pp. 343-352.

[53] B. Dyson, Microstructure based creep constitutive model for precipitation strengthened alloys: theory and application, J. Mater. Sci. Technol. 25(2) (2009) 213-220.

[54] F. Krumphals, T. Wlanis, C. Sommitsch, I. Holzer, B. Sonderegger, V. Wieser, Modelling of microstructure evolution in hot work tool steels during service, Comput. Methods Mater. Sci. 9 (2009) 228-233.

[55] M. Basirat, T. Shrestha, G. Potirniche, I. Charit, K. Rink, A study of the creep behavior of modified 9Cr–1Mo steel using continuum-damage modeling, Int. J. Plast. 37 (2012) 95-107.

[56] Y.-K. Kim, D. Kim, H.-K. Kim, C.-S. Oh, B.-J. Lee, An intermediate temperature creep model for Ni-based superalloys, Int. J. Plast. 79 (2016) 153-175.

[57] S. Yadav, T. Scherer, G.P. Reddy, K. Laha, G. Sasikala, S. Albert, C. Poletti, Creep modelling of P91 steel employing a microstructural based hybrid concept, Eng. Fract. Mech. 200 (2018) 104-114.

[58] S.D. Yadav, B. Sonderegger, M. Stracey, C. Poletti, Modelling the creep behaviour of tempered martensitic steel based on a hybrid approach, MSE A. 662 (2016) 330-341.

[59] C.Ó. Murchú, S.B. Leen, P. O'Donoghue, R.A. Barrett, A physically-based creep damage model for effects of different precipitate types, MSE A. 682 (2017) 714-722.

[60] I. Perrin, D. Hayhurst, Creep constitutive equations for a 0.5 Cr–0.5 Mo–0.25 V ferritic steel in the temperature range 600–675 C, J. Strain Anal. Eng. Des. 31(4) (1996) 299-314.

[61] Z. Kowalewski, D. Hayhurst, B. Dyson, Mechanisms-based creep constitutive equations for an aluminium alloy, J. Strain Anal. Eng. Des. 29(4) (1994) 309-316.

[62] S. Wu, H. Song, H. Peng, P. Hodgson, H. Wang, X. Wu, Y. Zhu, M. Lam, A. Huang, A microstructure-based creep model for additively manufactured nickel-based superalloys, Acta Mater. 224 (2022) 117528.

[63] B. Babu, L.-E. Lindgren, Dislocation density based model for plastic deformation and globularization of Ti-6Al-4V, Int. J. Plast. 50 (2013) 94-108.

[64] Y. Lin, D.-X. Wen, M.-S. Chen, Y.-X. Liu, X.-M. Chen, X. Ma, Improved dislocation density-based models for describing hot deformation behaviors of a Ni-based superalloy, J. Mater.

Res. 31(16) (2016) 2415-2429.

[65] Y. Lin, D.-X. Wen, J. Deng, G. Liu, J. Chen, Constitutive models for high-temperature flow behaviors of a Ni-based superalloy, Mater. Des. 59 (2014) 115-123.

[66] J. Christopher, B. Choudhary, Prediction of long-term creep behaviour of Grade 91 steel at 873 K in the framework of microstructure-based creep damage mechanics approach, Int. J. Damage Mech. 28(6) (2019) 877-895.

[67] X. Chen, H. Chen, S. Ma, Y. Chen, J. Dai, Y. Bréchet, G. Ji, S. Zhong, H. Wang, Z. Chen, Insights into flow stress and work hardening behaviors of a precipitation hardening AlMgScZr alloy: Experiments and modeling, Int. J. Plast. 172 (2024) 103852.

[68] E. Galindo-Nava, R. Schlütter, O. Messé, C. Argyrakis, C. Rae, A model for dislocation creep in polycrystalline Ni-base superalloys at intermediate temperatures, Int. J. Plast. 169 (2023) 103729.

[69] J. Zhang, Y. Liu, Y. Cheng, H. Wang, A. Sha, H. Duan, Modeling of creep in nickel-based superalloy based on microtwinning mechanism, Int. J. Plast. 174 (2024) 103916.

[70] A.S. Khan, S. Huang, Experimental and theoretical study of mechanical behavior of 1100 aluminum in the strain rate range 10− 5− 104s− 1, Int. J. Plast. 8(4) (1992) 397-424.

[71] X. Shang, Z. Cui, M. Fu, Dynamic recrystallization based ductile fracture modeling in hot working of metallic materials, Int. J. Plast. 95 (2017) 105-122.

[72] F.J. Humphreys, M. Hatherly, Recrystallization and related annealing phenomena, elsevier2012.

[73] F. Montheillet, J.J. Jonas, Models of recrystallization, (2009).

[74] C. Poletti, R. Bureau, P. Loidolt, P. Simon, S. Mitsche, M. Spuller, Microstructure evolution in a 6082 aluminium alloy during thermomechanical treatment, Mater. 11(8) (2018) 1319.

[75] M. Ardeljan, I.J. Beyerlein, M. Knezevic, Effect of dislocation density-twin interactions on twin growth in AZ31 as revealed by explicit crystal plasticity finite element modeling, Int. J. Plast. 99 (2017) 81-101.

[76] N. Kumar, D. Choudhuri, R. Banerjee, R. Mishra, Strength and ductility optimization of Mg–Y–Nd–Zr alloy by microstructural design, Int. J. Plast. 68 (2015) 77-97.

[77] M. Zecevic, M. Knezevic, B. McWilliams, R.A. Lebensohn, Modeling of the thermo-mechanical response and texture evolution of WE43 Mg alloy in the dynamic recrystallization regime using a viscoplastic self-consistent formulation, Int. J. Plast. 130 (2020) 102705.

[78] R.H. Buzolin, M. Lasnik, A. Krumphals, M.C. Poletti, A dislocation-based model for the microstructure evolution and the flow stress of a Ti5553 alloy, Int. J. Plast. 136 (2021) 102862.

[79] G. Zhou, Z. Li, D. Li, Y. Peng, H.S. Zurob, P. Wu, A polycrystal plasticity based discontinuous dynamic recrystallization simulation method and its application to copper, Int. J. Plast. 91 (2017) 48-76.

[80] X. Hu, C. Chen, Y. Li, Z. Yang, F. Zhang, W. Zhang, Microstructural evolution of cast super austenitic stainless steel during hot compression, J. Mater. Res. Technol. 26 (2023) 2770-2781.

[81] N. Sahu, A. Selokar, U. Prakash, Thermo-mechanical behaviour of 23/8 austenitic stainless steel, ISIJ Int. 54(4) (2014) 970-978.

[82] G. Shankar, V. Gayatri, L.A. Barrales-Mora, S. Suwas, Evolution of recrystallization texture in medium to low stacking fault energy alloys: Experiments and simulations, Int. J. Plast. 172 (2024) 103827.

[83] Z. Gao, Z. Jia, J. Ji, D. Liu, T. Guo, Y. Ding, Texture Evolution and Dislocation Behavior in a Nickel-Based Superalloy during Hot Compression, Adv. Eng. Mater. 22(3) (2020) 1900892.

[84] M. Wang, C. Sun, M. Fu, Z. Liu, C. Wang, Microstructure and microtexture evolution of dynamic recrystallization during hot deformation of a nickel-based superalloy, Mater. Des. 188 (2020) 108429.

[85] P. Zhao, Y. Wang, S.R. Niezgoda, Microstructural and micromechanical evolution during dynamic recrystallization, Int. J. Plast. 100 (2018) 52-68.

[86] A.S. Khan, O. Lopez-Pamies, R. Kazmi, Thermo-mechanical large deformation response and constitutive modeling of viscoelastic polymers over a wide range of strain rates and temperatures, Int. J. Plast. 22(4) (2006) 581-601.

[87] A.S. Khan, A. Pandey, T. Gnäupel-Herold, R.K. Mishra, Mechanical response and texture evolution of AZ31 alloy at large strains for different strain rates and temperatures, Int. J. Plast. 27(5) (2011) 688-706.

[88] Y. Bergström, W. Roberts, The application of a dislocation model to dynamical strain ageing in α-iron containing interstitial atoms, Acta Metall. 19(8) (1971) 815-823.

[89] C. Poletti, R.H. Buzolin, S. Kumar, P. Wang, T.F.J. Simonet-Fotso, Microstructure evolution of ti-5al-5v-5mo-3cr after hot deformation at large and moderate strains, Mater. Sci. Forum, Trans Tech Publ, 2019, pp. 1443-1449.

[90] F.M.B. Ferraz, Ł. Sztangret, F. Carazo, R.H. Buzolin, P. Wang, D. Szeliga, P. dos Santos Effertz, P. Macioł, A. Krumphals, M.C. Poletti, Metamodelling the hot deformation behaviour of titanium alloys using a mean-field approach, Mater. Today Commun. 35 (2023) 106148.

[91] A.S. Joseph, P. Gupta, N. Kumar, M.C. Poletti, S.D. Yadav, An advanced dislocation density-based approach to model the tensile flow behaviour of a 64.7 Ni–31.96 Cu alloy, Philos. Mag. 102(15) (2022) 1481-1504.

[92] R. Liu, Z. Zhang, G. Zhou, Z. Jia, D. Li, P. Wu, A polycrystal plasticity-cellular automaton integrated modeling method for continuous dynamic recrystallization and its application to AA2196 alloy, Int. J. Plast. 182 (2024) 104127.

[93] F. Xiong, C. Huang, O.L. Kafka, Y. Lian, W. Yan, M. Chen, D. Fang, Grain growth prediction in selective electron beam melting of Ti-6Al-4V with a cellular automaton method, Mater. Des. 199 (2021) 109410.

[94] P. Zhao, T.S.E. Low, Y. Wang, S.R. Niezgoda, An integrated full-field model of concurrent plastic deformation and microstructure evolution: Application to 3D simulation of dynamic recrystallization in polycrystalline copper, Int. J. Plast. 80 (2016) 38-55.

[95] D. He, S.-b. Chen, Y. Lin, C. Li, Z. Xu, G. Xiao, Microstructural evolution characteristics and a unified dislocation-density related constitutive model for a 7046 aluminum alloy during hot tensile, J. Mater. Res. and Technology 25 (2023) 2353-2367.

[96] F. Lizzi, K. Pradeep, A. Stanojevic, S. Sommadossi, M.C. Poletti, Hot Deformation Behavior of a Ni-Based Superalloy with Suppressed Precipitation, Metals 11(4) (2021) 605.

[97] J. Peŝiĉka, A. Dronhofer, G. Eggeler, Free dislocations and boundary dislocations in tempered martensite ferritic steels, MSE A. 387 (2004) 176-180.

[98] A. Sarkar, S.D. Yadav, A. Nagesha, An EBSD based investigation on the deformation mechanisms under HCF-creep interaction in a Ni-based superalloy (alloy 617M), MSE A. 832 (2022) 142399.

[99] A. Sarkar, S.D. Yadav, A. Nagesha, K. Mariappan, S. Ramaseshan, Mechanism of crack initiation under high cycle fatigue through an EBSD based approach in a 10 wt% Cr steel, MSE A. 795 (2020) 139940.

[100] G.I. Taylor, The mechanism of plastic deformation of crystals. Part II.—Comparison with observations, Proceedings of the Royal Society of London. Series A, Containing Papers of a

Mathematical and Physical Character 145(855) (1934) 388-404.

[101] D. He, X.-y. Chen, Y. Lin, The improved physically-mechanism constitutive model for a Ni-Mo-Cr-based superalloy with the pre-precipitation of μ phase in hot forming, J. Alloys Compd. (2024) 174934.

[102] C. Varvenne, G.P.M. Leyson, M. Ghazisaeidi, W.A. Curtin, Solute strengthening in random alloys, Acta Mater. 124 (2017) 660-683.

[103] G. Leyson, W. Curtin, Solute strengthening at high temperatures,Modell. Simul. Mater. Sci. Eng. 24(6) (2016) 065005.

[104] A. Argon, Strengthening mechanisms in crystal plasticity, OUP Oxford2007.

[105] R. Fleischer, Substitutional solutes in AlRu—I. Effects of solute on moduli, lattice parameters and vacancy production, Acta Metall. et materialia 41(3) (1993) 863-869.

[106] H. Frost, M. Ashby, Deformation-mechanism maps for pure iron, two austenitic stainless steels, and a low-alloy ferritic steel, Fundamental aspects of structural alloy design, Springer1977, pp. 27-65.

[107] K. Sedighiani, K. Traka, F. Roters, D. Raabe, J. Sietsma, M. Diehl, Determination and analysis of the constitutive parameters of temperature-dependent dislocation-density-based crystal plasticity models, Mech. Mater. 164 (2022) 104117.

[108] S. Nemat-Nasser, T. Okinaka, L. Ni, A physically-based constitutive model for bcc crystals with application to polycrystalline tantalum, J. Mech. Phys. Solids. 46(6) (1998) 1009-1038.

[109] J. Lothe, Theory of dislocation climb in metals, J. Appl. Phys. 31(6) (1960) 1077-1087.

[110] D. Caillard, J. Martin, Thermally activated mechanisms in crystal plasticity, Amsterdam 2003.

[111] R.A. Lebensohn, C.S. Hartley, C.N. Tomé, O. Castelnau, Modeling the mechanical response of polycrystals deforming by climb and glide, Philos. Mag. 90(5) (2010) 567-583.

[112] D. Caillard, J.-L. Martin, Thermally activated mechanisms in crystal plasticity, Elsevier2003.

[113] F. Roters, D. Raabe, G. Gottstein, Work hardening in heterogeneous alloys—a microstructural approach based on three internal state variables, Acta Mater. 48(17) (2000) 4181-4189.

[114] S.L. Wong, M. Madivala, U. Prahl, F. Roters, D. Raabe, A crystal plasticity model for twinning-and transformation-induced plasticity, Acta Mater. 118 (2016) 140-151.

[115] W. Roberts, B. Ahlblom, A nucleation criterion for dynamic recrystallization during hot working, Acta Metall. 26(5) (1978) 801-813.

[116] A. Momeni, G. Ebrahimi, M. Jahazi, P. Bocher, Microstructure evolution at the onset of discontinuous dynamic recrystallization: A physics-based model of subgrain critical size, J. Alloys Compd. 587 (2014) 199-210.

[117] K. Huang, R.E. Logé, A review of dynamic recrystallization phenomena in metallic materials, Mater. Des. 111 (2016) 548-574.

[118] F. Chen, H. Zhu, W. Chen, H. Ou, Z. Cui, Multiscale modeling of discontinuous dynamic recrystallization during hot working by coupling multilevel cellular automaton and finite element method, Int. J. Plast. 145 (2021) 103064.

[119] F. Chen, H. Zhu, H. Zhang, Z. Cui, Mesoscale modeling of dynamic recrystallization: multilevel cellular automaton simulation framework, Metall. Mater. Trans A. 51 (2020) 1286-1303.

[120] X. Zhao, R. Guest, S. Tin, D. Cole, J. Brooks, M. Peers, Modelling hot deformation of Inconel 718 using state variables, J. Mater. Sci. Technol. 20(11) (2004) 1414-1420.

[121] K. Pradeep, R.H. Buzolin, M. Domankova, F. Godor, A. Stanojevic, M.C. Poletti, Dynamic recrystallisation in Inconel® 718 at creep conditions, MSE A. 893 (2024) 146146.

[122] J.C. Lagarias, J.A. Reeds, M.H. Wright, P.E. Wright, Convergence properties of the Nelder--Mead simplex method in low dimensions, SIAM J. Optim. 9(1) (1998) 112-147.

[123] J. D’Errico, Fminsearchbnd, fminsearchcon, MATLAB central file exchange (2021).

[124] S.M. Walley, The effect of temperature gradients on elastic wave propagation in split Hopkinson pressure bars, J. Dyn. Behav. Mater. 6(3) (2020) 278-286.

[125] W.D. Jenkins, T.G. Digges, Effect of temperature on the tensile properties of high-purity nickel, J. Res. Natl. Bur. Stand. 48(4) (1952) 313-321.

[126] R.P. Guest, S. Tin, The dynamic and metadynamic recrystallisation of IN 718, Proceedings of the International Symposium on Superalloys and Various Derivatives, 2005, pp. 373-383.

[127] M.N. Gussev, K.J. Leonard, In situ SEM-EBSD analysis of plastic deformation mechanisms in neutron-irradiated austenitic steel, J. Nucl. Mater. 517 (2019) 45-56.

[128] Y.-X. Liu, Z.-J. Ke, R.-H. Li, Effects of sudden changes in strain rate on hot deformation behavior of Inconel 718, Mater. Today Commun. 34 (2023) 105295.

[129] N. Koundinya, A.K. Karnati, A. Sahadevan, S.N. Murty, R.S. Kottada, Assessment of the

post-dynamic recrystallization effects on the overall dynamic recrystallization kinetics in a Ni-base superalloy, J. Alloys Compd. 930 (2023) 167412.

[130] S. Mitsche, P. Pölt, C. Sommitsch, Recrystallization behaviour of the nickel-based alloy 80 A during hot forming, J. Microsc. 227(3) (2007) 267-274.

[131] R.W. Rohde, C.H. Pitt, Dislocation velocities in nickel single crystals, J. Appl. Phys. 38(2) (1967) 876-879.

[132] J.H. Hollomon, Tensile deformation, Aime Trans 12(4) (1945) 1-22.

[133] P. Ludwik, Elemente der technologischen Mechanik, Springer1909.

[134] E. Voce, The relationship between stress and strain for homogeneous deformation, J. Inst. Met. 74 (1948) 537-562.

[135] D.L. Holt, Dislocation cell formation in metals, J. Appl. Phys. 41(8) (1970) 3197-3201.

[136] E. Nes, Modelling of work hardening and stress saturation in FCC metals, Prog. Mater. Sci. 41(3) (1997) 129-193.

[137] B. Rath, M. Imam, C. Pande, Nucleation and growth of twin interfaces in fcc metals and alloys, Mater. Phys. Mech. 1(0) (2000).

[138] L. Gypen, A. Deruyttere, Multi-component solid solution hardening: Part 1 Proposed model, J. Mater. Sci. 12 (1977) 1028-1033.

[139] T. Chen, Understanding the deformation mechanisms in Ni-based superalloys with using crystal plasticity finite element method, Missouri University of Science and Technology 2020.

[140] M.A. Moiz, The influence of grain size on mechanical properties of Inconel 718, 2013.

[141] R. Klueh, A.T. Nelson, Ferritic/martensitic steels for next-generation reactors, J. Nucl. Mater. 371(1-3) (2007) 37-52.

[142] A. Kohyama, Y. Kohno, K. Asakura, H. Kayano, R&D of low activation ferritic steels for fusion in japanese universities, J. Nucl. Mater. 212 (1994) 684-689.

[143] B. Raj, T. Jayakumar, Development of reduced activation ferritic–martensitic steels and fabrication technologies for Indian test blanket module, J. Nucl. Mater. 417(1-3) (2011) 72-76.

[144] K. Sahoo, J. Vanaja, P. Parameswaran, V. Vijayanand, K. Laha, Effect of thermal ageing on microstructure, tensile and impact properties of reduced activated ferritic-martensitic steel, MSE A. 686 (2017) 54-64.

[145] A. Suri, N. Krishnamurthy, I. Batra, Materials issues in fusion reactors, Journal of physics: conference series, IOP Publishing, 2010, p. 012001.

[146] X. Wang, A.M. Monterrosa, F. Zhang, H. Huang, Q. Yan, Z. Jiao, G.S. Was, L. Wang, Void swelling in high dose ion-irradiated reduced activation ferritic–martensitic steels, J. Nucl. Mater. 462 (2015) 119-125.

[147] J.-h. Zhou, Y.-f. Shen, N. Jia, Strengthening mechanisms of reduced activation ferritic/ martensitic steels: A review, Int. J. Miner. Metall. Mater. 28 (2021) 335-348.

[148] Z. Zhu, H. Basoalto, N. Warnken, R. Reed, A model for the creep deformation behaviour of nickel-based single crystal superalloys, Acta Mater. 60(12) (2012) 4888-4900.

[149] Q. Huang, N. Baluc, Y. Dai, S. Jitsukawa, A. Kimura, J. Konys, R.J. Kurtz, R. Lindau, T. Muroga, G.R. Odette, Recent progress of R&D activities on reduced activation ferritic/martensitic steels, J. Nucl. Mater. 442(1-3) (2013) S2-S8.

[150] M. Mathew, J. Vanaja, K. Laha, G.V. Reddy, K. Chandravathi, K.B.S. Rao, Tensile and creep properties of reduced activation ferritic–martensitic steel for fusion energy application, J. Nucl. Mater. 417(1-3) (2011) 77-80.

[151] M. Yaylaci, Simulate of edge and an internal crack problem and estimation of stress intensity factor through finite element method, Adv. Nano Res. 12(4) (2022) 405-414.

[152] B. Xiao, S.D. Yadav, L. Zhao, Z. Tang, Y. Han, X. Yang, J.-J. Kai, T. Yang, L. Xu, Deep insights on the creep behavior and mechanism of a novel G115 steel: Micromechanical modeling and experimental validation, Int. J. Plast. 147 (2021) 103124.

[153] J. Xiao, H. Cui, H. Zhang, W. Wen, J. Zhou, A physical-based constitutive model considering the motion of dislocation for Ni3Al-base superalloy, MSE A. 772 (2020) 138631.

[154] W. Blum, P. Eisenlohr, F. Breutinger, Understanding creep—a review, Metall. Mater. Trans A. 33 (2002) 291-303.

[155] T. Barkar, J. Ågren, Creep simulation of 9–12% Cr steels using the composite model with thermodynamically calculated input, MSE A. 395(1-2) (2005) 110-115.

[156] K. Song, L. Zhao, L. Xu, Y. Han, S. Pan, Dislocation creep modelling of Sanicro 25 based on microstructural evolution and particle hardening mechanism, Theor. Appl. Fract. 112 (2021) 102893.

[157] R. Oruganti, M. Karadge, S. Swaminathan, Damage mechanics-based creep model for 9–10% Cr ferritic steels, Acta Mater. 59(5) (2011) 2145-2155.

[158] A. Argon, S. Takeuchi, Internal stresses in power-law creep, Acta Metall. 29(11) (1981) 1877-1884.

[159] F. Riedlsperger, B. Krenmayr, G. Zuderstorfer, B. Fercher, B. Niederl, J. Schmid, B. Sonderegger, Application of an advanced mean-field dislocation creep model to P91 for calculation of creep curves and time-to-rupture diagrams, Materialia 12 (2020) 100760.

[160] B. Grabowski, Y. Ikeda, P. Srinivasan, F. Körmann, C. Freysoldt, A.I. Duff, A. Shapeev, J. Neugebauer, Ab initio vibrational free energies including anharmonicity for multicomponent alloys, npj Comput. Mater. 5(1) (2019) 80.

[161] J. Vanaja, K. Laha, Assessment of tungsten content on tertiary creep deformation behavior of reduced activation ferritic–martensitic steel, Metall. Mater. Trans A. 46 (2015) 4669-4679.

[162] J. Vanaja, K. Laha, R. Mythili, K. Chandravathi, S. Saroja, M. Mathew, Creep deformation and rupture behaviour of 9Cr–1W–0.2 V–0.06 Ta Reduced Activation Ferritic–Martensitic steel, MSE A. 533 (2012) 17-25.

[163] W. Wen, A. Kohnert, M.A. Kumar, L. Capolungo, C.N. Tomé, Mechanism-based modeling of thermal and irradiation creep behavior: An application to ferritic/martensitic HT9 steel, Int. J. Plast. 126 (2020) 102633.

[164] F. Krumphals, B. Reggiani, L. Donati, T. Wlanis, C. Sommitsch, Deformation behaviour of a ferritic hot-work tool steel with respect to the microstructure, Comput. Mater. Sci. 52(1) (2012) 40-45.

[165] S. Nandi, K. Vikrant, P. Ahv, K. Singh, R. Ghosh, Creep modelling of P91 steel for high temperature power plant applications, Procedia Engineering 55 (2013) 751-755.

[166] K. Maruyama, K. Sawada, J.-i. Koike, Strengthening mechanisms of creep resistant tempered martensitic steel, ISIJ Int. 41(6) (2001) 641-653.

[167] M. Abd El-Azim, O. Ibrahim, O. El-Desoky, Long term creep behaviour of welded joints of P91 steel at 650 C, MSE A. 560 (2013) 678-684.

[168] S. Takeuchi, A. Argon, Steady-state creep of alloys due to viscous motion of dislocations, Acta Metall. 24(10) (1976) 883-889.

[169] R.J. Amodeo, N.M. Ghoniem, Dislocation dynamics. I. A proposed methodology for deformation micromechanics, Phys. Rev. B. 41(10) (1990) 6958.

[170] J. Salazar, O. Politano, D. Walgraef, On the dynamics of dislocation patterning, MSE A. 234 (1997) 397-400.

[171] M.R. Ahmadi, B. Sonderegger, S.D. Yadav, M.C. Poletti, Modelling and simulation of diffusion driven pore formation in martensitic steels during creep, MSE A. 712 (2018) 466-477.

[172] J. Vanaja, K. Laha, M. Mathew, Effect of tungsten on primary creep deformation and minimum creep rate of reduced activation ferritic-martensitic steel, Metall. Mater. Trans A. 45 (2014) 5076-5084.

[173] S. Spigarelli, Quantification of the effect of early microstructural degradation during creep of 9Cr–1Mo–NbV steels at 600° C, MSE A. 565 (2013) 269-277.

[174] C.G. Panait, A. Zielińska-Lipiec, T. Koziel, A. Czyrska-Filemonowicz, A.-F. Gourgues-Lorenzon, W. Bendick, Evolution of dislocation density, size of subgrains and MX-type precipitates in a P91 steel during creep and during thermal ageing at 600 C for more than 100,000 h, MSE A. 527(16-17) (2010) 4062-4069.

[175] A. Orlová, J. Čadek, Dislocation structure in the high temperature creep of metals and solid solution alloys: a review, Mater. Sci. Eng. 77 (1986) 1-18.

[176] A. Argon, Mechanical properties of single-phase crystalline media: deformation at low temperatures, Phys. Metall. (1996) 1877-1955.

[177] J. Pešička, A. Aghajani, C. Somsen, A. Hartmaier, G. Eggeler, How dislocation substructures evolve during long-term creep of a 12% Cr tempered martensitic ferritic steel, Scripta Mater. 62(6) (2010) 353-356.

[178] J. Pešička, R. Kužel, A. Dronhofer, G. Eggeler, The evolution of dislocation density during heat treatment and creep of tempered martensite ferritic steels, Acta Mater. 51(16) (2003) 4847-4862.

[179] J. Christopher, B. Choudhary, Constitutive modeling of primary creep behaviour of P9 steel, Trans. Indian Inst. Met. 69 (2016) 519-523.

[180] J. Christopher, B. Choudhary, Constitutive description of primary and steady-state creep deformation behaviour of tempered martensitic 9Cr–1Mo steel, Philos. Mag. 96(21) (2016) 2256-2279.

[181] J. Christopher, B. Choudhary, Constitutive modelling of stress-relaxation behaviour of tempered martensitic P91 steel using sine hyperbolic rate law, Mater. Chem. Phys. 205 (2018) 442-451.

[182] S.D. Yadav, S. Kalácska, M. Dománková, D.C. Yubero, R. Resel, I. Groma, C. Beal, B.

Sonderegger, C. Sommitsch, C. Poletti, Evolution of the substructure of a novel 12% Cr steel under creep conditions, Mater. Charact. 115 (2016) 23-31.

[183] A.D. Rollett, U.F. Kocks, A review of the stages of work hardening, Scripta Mater. 21(2) (1987) 343-347.

[184] K. Hamada, K. Tokuno, Y. Tomita, H. Mabuchi, K. Okamoto, Effects of precipitate shape on high temperature strength of modified 9Cr-1Mo steels, ISIJ Int. 35(1) (1995) 86-91.

[185] P. Eisenlohr, W. Blum, K. Milička, Dislocation glide velocity in creep of Mg alloys derived from dip tests, Mater. Sci. Eng. A 523 (2009) 393-397.

[186] W.G. Johnston, J.J. Gilman, Dislocation velocities, dislocation densities, and plastic flow in lithium fluoride crystals, J. Appl. Phys. 30(2) (1959) 129-144.

[187] D.F. Stein, J. Low Jr, Mobility of edge dislocations in silicon-iron crystals, J. Appl. Phys. 31(2) (1960) 362-369.

[188] A. George, Measurements of the dislocation velocities in silicon, J. Phys. Colloques 40(C6) (1979) C6-133–C6-137..

[189] M. Turunen, V. Lindroos, Edge dislocation velocity in stress-induced climb, Philos. Mag. 27(1) (1973) 81-86.

[190] G. Edelin, J. Poirier, Study of Dislocation climb by means of diffusional creep experiments in Mg. Pt. 1. Deformation Mechanism, Phil. Mag. 28(6) (1973) 1203-1210.

[191] M. Kabir, T.T. Lau, D. Rodney, S. Yip, K.J. Van Vliet, Predicting dislocation climb and creep from explicit atomistic details, Phys. Rev. Lett. 105(9) (2010) 095501.

[192] C.D. Versteylen, M.H.F. Sluiter, N.H. van Dijk, Modelling the formation and self-healing of creep damage in iron-based alloys, J. Mater. Sci. 53(20) (2018) 14758-14773.

[193] M. Winning, G. Gottstein, L.S. Shvindlerman, Stress induced grain boundary motion, Acta Mater. 49(2) (2001) 211-219.

[194] F. Barou, A. Guillotin, C. Maurice, J.M. Feppon, J. Driver, Boundary mobilities during recovery and recrystallization of binary Al-Mn alloys, Mater. Sci. Forum 558-559 (2007) 53-59.

[195] P. Eisenlohr, P. Sadrabadi, W. Blum, Quantifying the distributions of dislocation spacings and cell sizes, J. Mater. Sci. 43(8) (2008) 2700-2707.

[196] J. Christopher, B. Choudhary, Applicability of improved Dyson–McLean approach to creep deformation behaviour of tempered martensitic P9 steel, Mater. High Temp. 35(4) (2018)

387-397.

[197] J. Hald, Microstructure and long-term creep properties of 9–12% Cr steels, Int. J. Pressure Vessels Pip. 85(1-2) (2008) 30-37.

[198] M.E. Kassner, T.A. Hayes, Creep cavitation in metals, Int. J. Plast. 19(10) (2003) 1715-1748.

[199] J. Christopher, C. Praveen, V. Ganesan, G.P. Reddy, S.K. Albert, Influence of varying nitrogen on creep deformation and damage behaviour of type 316L in the framework of continuum damage mechanics approach, Int. J. Damage Mech. 30(1) (2021) 3-24.

[200] S. Yadav, G.P. Reddy, G. Sasikala, S. Albert, C. Poletti, Creep curve modeling of 9-12% Cr steels: a microstructural based semi-empirical approach, Proc. 2nd Int. Conf. Struct. Integr, 2018, pp. 57-65.

[201] H. Nitta, K. Miura, Y. Iijima, Self-diffusion in iron-based Fe–Mo alloys, Acta Mater. 54(10) (2006) 2833-2847.

[202] Y. Han, M. Chaturvedi, Steady state creep deformation of superalloy inconel 718, Mater. Sci. Eng. 89 (1987) 25-33.

[203] A. Drexler, A. Fischersworring-Bunk, B. Oberwinkler, W. Ecker, H.-P. Gänser, A microstructural based creep model applied to alloy 718, Int. J. Plast. 105 (2018) 62-73.

[204] Z. Guo, D. Huang, X. Yan, Physics-based modeling of γ/γ′ microstructure evolution and creep constitutive relation for single crystal superalloy, Int. J. Plast. 137 (2021) 102916.

[205] K. Chen, J. Dong, Z. Yao, Creep failure and damage mechanism of Inconel 718 alloy at 800–900° C, Metals Mater. Int. 27 (2021) 970-984.

[206] M.A. Kumar, L. Capolungo, Microstructure-sensitive modeling of high temperature creep in grade-91 alloy, Int. J. Plast. 158 (2022) 103411.

[207] A. Epishin, T. Link, Mechanisms of high-temperature creep of nickel-based superalloys under low applied stresses, Philos. Mag. 84(19) (2004) 1979-2000.

[208] G. Viswanathan, S. Karthikeyan, P.M. Sarosi, R. Unocic, M. Mills, Microtwinning during intermediate temperature creep of polycrystalline Ni-based superalloys: mechanisms and modelling, Philos. Mag. 86(29-31) (2006) 4823-4840.

[209] L. Kachanov, Rupture time under creep conditions, Izv. Akad. Nauk SSSR 8 (1958) 26-31.

[210] L. Kachanov, The theory of creep, national lending library for science and technology, Bostion Spa, Yorkshire (1967).

[211] Y.N. Rabotnov, F.A. Leckie, W. Prager, Creep problems in structural members, (1970).

[212] V. Gaffard, J. Besson, A.-F. Gourgues-Lorenzon, Creep failure model of a tempered martensitic stainless steel integrating multiple deformation and damage mechanisms, Int. J. Fract. 133 (2005) 139-166.

[213] J. He, R. Sandström, Basic modelling of creep rupture in austenitic stainless steels, Theor. Appl. Fract. 89 (2017) 139-146.

[214] M. Ahlers, Stacking fault energy and mechanical properties, Metall. Trans. 1 (1970) 2415-2428.

[215] P. Mehrotra, N. Kumar, A. George, K.C. Sahoo, V. Ganesan, M.R. Ahmadi, S. Trivedi, S.D. Yadav, An advanced mean field dislocation density reliant physical model to predict the creep deformation of 304HCu austenitic stainless steel, Mater. Today Commun. 32 (2022) 104128.

[216] N. Kumar, A.S. Joseph, P. Mehrotra, S.D. Yadav, An improved dislocation density reliant model to address the creep deformation of reduced activation ferritic martensitic steel, Forces Mech. 9 (2022) 100117.

[217] T. Shrestha, M. Basirat, I. Charit, G.P. Potirniche, K.K. Rink, U. Sahaym, Creep deformation mechanisms in modified 9Cr–1Mo steel, J. Nucl. Mater. 423(1) (2012) 110-119.

[218] I. Fedorova, A. Kipelova, A. Belyakov, R. Kaibyshev, Microstructure evolution in an advanced 9 pct Cr martensitic steel during creep at 923 K (650 C), Metall. Mater. Trans A. 44 (2013) 128-135.

[219] A. Manonukul, F. Dunne, D. Knowles, Physically-based model for creep in nickel-base superalloy C263 both above and below the gamma solvus, Acta Mater. 50(11) (2002) 2917-2931.

[220] S.D. Yadav, M. El-Tahawy, S. Kalácska, M. Dománková, D.C. Yubero, C. Poletti, Characterizing dislocation configurations and their evolution during creep of a new 12% Cr steel, Mater. Charact. 134 (2017) 387-397.

[221] A.S. Argon, Chapter 21 Mechanical properties of single-phase crystalline media: deformation at low temperatures, Physical Metallurgy1996, pp. 1877-1955.

[222] D. Jianxin, X. Xishan, Z. Shouhua, Coarsening behavior of γ″ precipitates in modified Inconel 718 superalloy, Scripta Mater. 33(12) (1995).

[223] A. Baldan, Review progress in Ostwald ripening theories and their applications to nickel-

base superalloys Part I: Ostwald ripening theories, J. Mater. Sci. 37 (2002) 2171-2202.

[224] S. Tian, X. Zhu, J. Wu, H. Yu, D. Shu, B. Qian, Influence of temperature on stacking fault energy and creep mechanism of a single crystal nickel-based superalloy, J. Mater. Sci. Technol. 32(8) (2016) 790-798.

[225] C. Tian, G. Han, C. Cui, X. Sun, Effects of stacking fault energy on the creep behaviors of Ni-base superalloy, Mater. Des. 64 (2014) 316-323.

[226] C. Liu, J. Yang, P. Ma, Z. Ma, L. Zhan, K. Chen, M. Huang, J. Li, Z. Li, Large creep formability and strength–ductility synergy enabled by engineering dislocations in aluminum alloys, Int. J. Plast. 134 (2020) 102774.

[227] D.-S. Kang, H. Lee, D.W. Yun, H.W. Jeong, Y.-S. Yoo, S.-M. Seo, Microstructural mechanism of local dynamic recrystallization around cavity during tertiary creep in directionally solidified superalloy CM247LC, Mater. Charact. 198 (2023) 112727.

[228] S. Sulzer, Z. Li, S. Zaefferer, S.M.H. Haghighat, A. Wilkinson, D. Raabe, R. Reed, On the assessment of creep damage evolution in nickel-based superalloys through correlative HR-EBSD and cECCI studies, Acta Mater. 185 (2020) 13-27.

[229] F. Riedlsperger, T. Wojcik, R. Buzolin, G. Zuderstorfer, M. Speicher, C. Sommitsch, B. Sonderegger, Microstructural insights into creep of Ni-based alloy 617 at 700° C provided by electron microscopy and modelling, Mater. Charact. 198 (2023) 112720.

[230] A. Orlova, M. Pahutova, J. Čadek, Dislocation structure and applied, effective and internal stress in high-temperature creep of alpha iron, Philos. Mag. 25(4) (1972) 865-877.

[231] P. Eisenlohr, W. Blum, K. Milicka, Dislocation glide velocity in creep of Mg alloys derived from dip tests, MSE A. 510 (2009) 393-397.

[232] A. Dronhofer, J. Pešicka, A. Dlouhý, G. Eggeler, On the nature of internal interfaces in tempered martensite ferritic steels, Int. J. Mater. Res. 94(5) (2022) 511-520.

[233] S. Shang, D. Kim, C. Zacherl, Y. Wang, Y. Du, Z. Liu, Effects of alloying elements and temperature on the elastic properties of dilute Ni-base superalloys from first-principles calculations, J. Appl. Phys. 112(5) (2012).

[234] S. Shang, C. Zacherl, H. Fang, Y. Wang, Y. Du, Z. Liu, Effects of alloying element and temperature on the stacking fault energies of dilute Ni-base superalloys, J. Phys. Condens. Matter. 24(50) (2012) 505403.

[235] M. Benyoucef, B. Décamps, A. Coujou, N. Clément, Stacking-fault energy at room

temperature of the γ matrix of the MC2 Ni-based superalloy, Philos. Mag. A 71(4) (1995) 907-923.

[236] F. Pettinari, J. Douin, G. Saada, P. Caron, A. Coujou, N. Clément, Stacking fault energy in short-range ordered γ-phases of Ni-based superalloys, MSE A. 325(1-2) (2002) 511-519.

[237] D.M. Knowles, Q. Chen, Superlattice stacking fault formation and twinning during creep in γ/γ′ single crystal superalloy CMSX-4, MSE A. 340(1-2) (2003) 88-102.

[238] H. Zhou, Y. Ro, H. Harada, Y. Aoki, M. Arai, Deformation microstructures after low-cycle fatigue in a fourth-generation Ni-base SC superalloy TMS-138, MSE A. 381(1-2) (2004) 20-27.

[239] S. Krishnan, R. Nikhil, A. Parnaik, A. Moitra, M. Vasudevan, Investigation on fracture resistance behaviour of dissimilar metal weld joint of modified 9Cr–1Mo steel and AISI 316LN SS, Int. J. Press. Vessels Pip. 211 (2024) 105260.

[240] J. Hu, G. Green, S. Hogg, R. Higginson, A. Cocks, Effect of microstructure evolution on the creep properties of a polycrystalline 316H austenitic stainless steel, Mater. Sci. Eng. A 772 (2020) 138787.

[241] R. Jain, M. Yadava, A. Tripathi, N. Gurao, Rate controlling deformation mechanisms in SS316L stainless steel manufactured using laser powder bed fusion technique, Int. J. Plast. 171 (2023) 103787.

[242] S. Ghosh, N. Bibhanshu, S. Suwas, K. Chatterjee, Surface mechanical attrition treatment of additively manufactured 316L stainless steel yields gradient nanostructure with superior strength and ductility, Mater. Sci. Eng. A 820 (2021) 141540.

[243] V. Srinivasan, B. Choudhary, M. Mathew, T. Jayakumar, Long-term creep-rupture strength prediction for modified 9Cr–1Mo ferritic steel and type 316L (N) austenitic stainless steel, Mater. High Temp. 29(1) (2012) 41-48.

[244] F. Sui, R. Sandström, Basic modelling of tertiary creep of copper, J. Mater. Sci. 53(9) (2018) 6850-6863.

[245] C. Praveen, J. Christopher, V. Ganesan, G.P. Reddy, G. Sasikala, S.K. Albert, Constitutive modelling of transient and steady state creep behaviour of type 316LN austenitic stainless steel, Mech. Mater. 137 (2019) 103122.

[246] F.H. Norton, The creep of steel at high temperatures, No Title (1929).

[247] D. Baraldi, S. Holmström, K.-F. Nilsson, M. Bruchhausen, I. Simonovski, 316L (N) creep

modeling with phenomenological approach and artificial intelligence based methods, Metals 11(5) (2021) 698.

[248] H. Basoalto, S. Sondhi, B. Dyson, M. McLean, A generic microstructure-explicit model of creep in nickel-base superalloys, Superalloys 1 (2004) 897-906.

[249] C. Praveen, J. Christopher, V. Ganesan, G. Prasad Reddy, S.K. Albert, Prediction of creep behaviour of 316LN SS under uniaxial and multiaxial stress state using Kachanov–Rabotnov model at 923 K, Trans. Indian Inst. Met. 73 (2020) 1645-1653.

[250] P.S. Follansbee, An internal state variable constitutive model for deformation of austenitic stainless steels, J. Eng. Mater. Technol. 134(4) (2012) 041007.

[251] S. Vujic, R. Sandström, C. Sommitsch, Precipitation evolution and creep strength modelling of 25Cr20NiNbN austenitic steel, Mater. High Temp. 32(6) (2015) 607-618.

[252] U. Kocks, Laws for work-hardening and low-temperature creep, (1976).

[253] L. Kubin, B. Devincre, T. Hoc, Modeling dislocation storage rates and mean free paths in face-centered cubic crystals, Acta Mater. 56(20) (2008) 6040-6049.

[254] R. Sandström, H.C. Andersson, Creep in phosphorus alloyed copper during power-law breakdown, J. Nucl. Mater. 372(1) (2008) 76-88.

[255] R. Sandström, Fundamental models for the creep of metals, IntechOpen (2017).

[256] B. Devincre, T. Hoc, L. Kubin, Dislocation mean free paths and strain hardening of crystals, Science 320(5884) (2008) 1745-1748.

[257] D. Terada, F. Yoshida, H. Nakashima, H. Abe, Y. Kadoya, In-situ observation of dislocation motion and its mobility in Fe-Mo and Fe-W solid solutions at high temperatures, ISIJ Int. 42(12) (2002) 1546-1552.

[258] K.C. Sahoo, S. Goyal, V. Ganesan, J. Vanaja, G.V. Reddy, P. Padmanabhan, K. Laha, Analysis of creep deformation and damage behaviour of 304HCu austenitic stainless steel, Mater. High Temp. 36(5) (2019) 388-403.