

REFERENCES

1. R. Lagneborg: 'creep of engineering materials and structures'; Applied Science Publishers, 1978, pg. 7-34.
- 2.. H J Frost and M.F Ashby: 'Deformation–Mechanism Maps'; Oxford, Pergamon Press , 1982, Chap 2
3. D. Sidney: 'The high temperature creeps and fracture behaviour of a 1-Pct Cr MoV Rotor Steel'; *Met. Trans*, vol. 7A, 1976, pg 1785
4. K.R. Williams and B. Wilshire: ' Microstructural instability of 0.5Cr-0.5Mo-0.25V creep resistant steel during service at elevated temperatures'; *Mat Sci. Eng*, vol. 47, 1981, pg 151-160
- 5 U.F Kocks, A.S Argon and M.F Ashby: "Thermodynamics and Kinetics of slip" *Progress in Materials Science*, Pergamon Press vol. 19, 1975,
6. A.S. Krausz and K. Krausz: The constitutive Law of Deformation Kinetics, 'Unified Constitutive Laws of Plastic Deformation'; Academic Press, 1996, pg 229-277
7. R.W. Evans and B. Wilshire : 'Creep of Metals and Alloys'; Institute of Metals, London, 1985, chap. 4
8. B.F Dyson and M. McLean: *ISIJ International*, vol. 30, 1990, pg 802-811
9. J.R. Klepaczko and C.Y Chiem: *J. Mech. Phys. Solids*, 1986, vol. 34, pg 29-54
10. Y. Estrin and H. Mecking: 'A unified phenomenological description of work hardening and creep based on one-parameter models'; *Acta Metall.*, vol.32, no.1, 1984, pg 57-70
11. David N French: 'Creep and creep failures'; *Natural Board Classic series*
12. F.R.N Nabarro and H.L. de Villiers., 'The Physics of Creep'; Taylor & Francis., 1995. chap 2
13. T. Matsuo, K Kimura, R. Tanaka and M. Kikuchi: 'Proc. 4th Int. Conf. On Creep and Fracture of Engineering Materials and Structur,es' (ed R.W Evans and B. Wilshire), The Institute of Metals, London, 1990, pg 447-486,
14. U.F. Kocks, J. *Enging Mater, Tech (ASME H)* vol. 98, 1976 , pg 76
15. U.F. Kocks and H. Mecking: 'in strengths of Metals ands Alloys'; (ed. by P. Haasen, V. Gerold and G. Kostorz) vol 1, Perganom Press, Oxford, 1979, pg 345
16. H. Mecking and U.F. Kocks, *Acta Metall.* vol.29, 1981, pg 1865

17. H. Mecking: 'In dislocation modelling of physical systems' (ed. by M.F Ashby et al.,) Pergamon Press, Oxford, 1981, pg 197
18. H.D. Chandler: 'a deformation model for creep including primary, secondary and tertiary phases'
19. A. G. Guy: 'Introduction to Materials Science'; McGraw – Hill Inc, 1972, chap 9
20. D. Hull & D. J. Bacon: 'Introduction to dislocations'; *international series on material science and technology*, Vol 37. 1984, chap 1 & 2
21. H. D. Chandler and J.N. Görtzen:, *Materials Science and Engineering*, A185 1994, pg 97-102
22. H. D. Chandler; B. Wilshire and R.W. Evans (eds): 'Proc. 4th Int. Conf. on creep and fracture of engineering materials and structures'; Institute of metals,
23. X.F. Fang and W. Dahl:; *Materials Science and Engineering*, A203, 1995, VNR International, 1981, pg 14-25
24. L.M Brown and W,M Stobbs., *Phil Mag.* vol. 23 , 1971, pg 1185
25. P.B Hirsch and F. Humprises, *Proc R. Soc. A318*, 1970, pg 45
26. U.F Kocks, A.S Argon and M.F Ashby: 'Thermodynamics and Kinetics of Slip'; *Prog. Materials*, vol.19, 1975, pg 1
27. P. Guyot and J.E Dorn, *Can J. Physics*, vol. 45 1967, pg 883
28. E. W Hart., *Acta Metall*, vol. 18, 1970, pg 509
29. U.F Kocks:, Constitutive relations for slip: 'Constitutive equations in equations in plasticity'; (ed. A.S Argon), MIT press, Cambridge, M.A, 1975, pg 81
30. A.P.L Turner, T. Hasagawa: 'Mechanical Testing for deformation model development'; ASTM STP 765 (ed. by R.W Rohde and J.C Swerengen), 1982, pg 322
31. R.W. Bailey: 'note on the softening of strain-hardening metals and its relation to creep'; *J. Inst. Met.*; vol. 35, 1926 ,pg 27
32. E. Orowan: 'The creep of metals'; *J. West Scotland Iron and Steel Inst* 1946-7
33. A.H. Cottrell and V. Aytekin: 'The flow of Zinc under constant stress'; *J Inst. Met.*; vol. 77, 1950, pg 389
34. N.F Mott: 'A theory of work hardening of metals II: flow without slip lines, recovery and creep'; *Phil. Mag.*; vol 44., 1953, pg 742
35. D. Mclean and H.F Hale: 'structural processes in creep'; London 1961, *Iron and Steel Inst. Special report No. 70*, 1961, pg 19

36. D. Mclean D: 'The physics of high temperature creep'; *Rep. Prog. Physics* 29, 1966, pg 1
37. R. Lagneborg: 'development and refinement of recovery –creep theory'; *Met. Sci. J* vol 3, 1969,pg 161
38. J.H Gittus: 'Strain recovery and work hardening during creep due to dislocations'; *Phil Mag* 23, 1971
39. J. Weertman: 'Steady state creep through dislocation Climb'; *J. Appl. Phys.* 28, 1952, pg 362
40. J. Weertman: 'Theory of steady state creep based on dislocation climb'; *J. Appl. Physic*, vol. 26, 1955, pg 1213
41. L. Shi and D.O Northwood: *Acta Metall. Mater.*, vol. 42., No. 3., 1994, Pg 871-877.
42. A.G Evans and T.G Langdon, *Prog. Mater. Sc.*, vol.21, 1976, pg 171
43. Y Estrin: *Journal Materials Processing Tech*, vol.80-81, 1998, pg 33-39
44. Y Estrin and L P Kubin: 'Local Strain Hardening and Nonuniformity of Plastic Deformation'; *Acta Metall*, vol 34, 12, 1986, pg 3495-2464
45. U F Kocks and H Mecking: 'in strengths of Metals and alloys' (ed. by P Haasen , V Gerold and G Kostozz, vol 1, Perganom Press, Oxford., 1979
46. H Mecking: 'work hardening in tension and fatigue'; ed. by A W Thompson, Am. Inst. Min. Engrs .,1977, pg 67
47. Qi. Weidong and Albrecht Bertram: *Inter Journal of Plasticity*, vol. 15.,1999, pg 1197-1215
48. H. Altenbach, *Mater. Phys.Mech.* vol. 3, 2001, pg 25-35
49. H. Altenbach and A. Zolochevsky II: *Engng. Frac. Mech.*, vol. 54., 1996
50. D. Hull and D.E Rimmer; 'The growth of grain boundary voids under stress'; *Phil. Mag.*, vol. 4, 1959, pg 673-687
51. V.P Sdobyrev II Izv. AN SSSR.OTN: *Mekh. I Mashinostroenie*, vol. 6., 1959
52. I.J Perrin, D.R Hayhurst, 'Creep Constitutive Equations for 0.5Cr-0.5Mo-0.25V Ferritic Steel in Temperature Range 600-675°C', *J Strain Anal.* 31(4)., 1999., pg 299-314
53. R.W. Evans, J D Parker, and B Wilshire: *Inst. J Pressure Vessels Piping*, 1990, 50, pg 147-169
54. Koul A.K and Castillo R: *Mat Sc. Eng*, A 138, 1991, pg 213-219
55. Evans R: *Mat.Sc*, vol 16, Jan 2001

56. B Ule, T Rodič, and T Šuštar: *Mat. Sc*, vol. 13 July 1997
57. A. Seeger: *Phil. Mag.*, vol.46, 1955, pg 1194
58. B. Reppich, P. Haasen and B. Ihschner: *Acta Metall.*, vol.12, 1964,pg 1283
59. S. Takeuchi and A.S Argon: *J. Mater. Sci.*, vol. 11, 1976 , pg 1542
60. J.C. Gibeling and W.D Nix: *Mater. Sci. Eng.*, vol. 11, 1977,pg 453
61. G.B Gibbs: *Phil. Mag.*, vol. 13, 1966, pg 317
62. S. Takeuchi and A.S Argon: *J. Mater Sci.*, vol. 11, 1976, pg 1542
63. R. Lagneborg: *J. Mater. Sci.*, vol. 3, 1968, pg 596
64. R. Lagneborg: *Scripta Metall.*, vol. 7, 1973, pg 605
65. P.W Davies, G Nelmes, K.R.W Williams and B.Wilshire: *Metal Sci*, vol. 7, 1973 , pg 87
66. P.L Thredgill and B Wilshire: 'Proc Conf. on Creep Strength of Steels'; the Metal Soc, London, 1974 , pg 8
67. J.D Parker and B. Wilshire: *Metal Sci.*, vol 9, 1975, pg 248
68. D.F Dyson and M. Mclean: 'Particle Coarsening σ_c and tertiary creep'; *Acta Metall*, Vol. 31, 1980, pg 1710-27
69. D. Mclean and K.F Hale: 'Structural process in creep'; London (ISI/Met Soc.), 1961, pg 19
70. D. McLean: Rep. Prog. Phys,29, *Mater Sci.* vol.13, 1967,pg 325
71. D.F. Dyson and M.McLean; *Acta Metall.* vol 31, 1983, pg 17-27
72. K.R. Williams and B. Wilshire: *Metal Sci.* vol. 7, 1973,pg 176
73. W.J. Evans and G. F. Harrison: *Metals Sci.* vol. 13, 1979, pg 645
74. H. Burt, J.P. Dennison and B. Wilshire: *Metals Sci.* vol.13, 1979, pg 295
75. R.A Stevens and P.E.J Flewitt: *Acta Metall*, vol 29, 1981, pg 869
76. K.R Williams and B.J Cane: *Material Science and Engineering*, vol.38, 1979, pg 199
77. R. Viswanathan: *J Test Eval*, vol. 3, 1975, pg 93-106
78. J.D Baird, A Jamieson, R. R Preston, and R.C Coctrane: 'Creep strength in steel and high temperature Alloys'; The Metal Society, London, 1974, pp 207-16
79. J, Myers, G Willoughby and R.K Ham: *Mat. Sci. J.*, vol.2, 1968, pg 220
80. B.Russel, R.K Ham, J.M Silcock and G. Willoughby: *Mat Sci. J.*, vol. 2, 1968, pg 201

81. B.B Argent, M.N Van Mickert and G.A Redfern: *J Iron Steel Inst.*, vol. 208, 1970, pp 830-43
82. D.A Miller: 'A Constitutive Equation for Creep Deformation of 1 Cr-Mo-V Ferritic Steel at 823-838K'; *Mat. Sci. and Eng.*, Vol 54, 1982, pg 169-176
83. W.J. Evans and G.E Harrison: *Metals Sci.*, vol. 13, 1979,pg 641
84. R. H. Burt, J.P Dennison and B. Wilshire: *Metal Sci*, vol. 13, 1979,pg 295
85. R.A Stevens and P.E. Flewitt: *Acta Metall.* vol.29, 1981, pg 869
86. K.R. Williams and R.J Cane: *Mater Sci. Eng.* vol. 38, 1979,pg 199
87. C.J Bolton, CEGB Rep. RD/13/N2300, 1973
88. H. D. Chandler: *Material Science and Engineering*, A169, 1993, pg 27-32
89. U.F Kocks, A.R Argon and M.F Ashby: 'Thermodynamics and kinetic of Slip'; *Prog. Mater. Sc.* vol. 19, 1975
90. O. D. Sherby and P.M. Burke: *Prog. Mater. Sci*, vol.13, 1967, pg 325
91. J. Weertman, in: J.C.M. Li, A.K. Mukherjee (Eds.): 'Rate Processes in Plastic Deformation of Materials'; *American Society for Metals*, Materials Park, OH, 1975, pg 315
92. M.F Ashby and H.J Frost, in: A.S. Argon (Ed.), 'Constitutive Equations in Plasticity'; MIT Press, Cambridge, MA, 1975,pg 117
93. A. Arieli and A.K. Mukherjee, in: B. Wilshire (Ed.), 'Proc. Int. Conf. Creep, Swansea'; UK, 1981, pg 97-111
94. S.V.Raj and T.G. Langdon: *Acta Met. Mater.* vol. 39, (1991), Page 1823
95. A.D Freed and S.V Raj: *J. Eng. Mater. Tech. Trans.*, ASME, vol 114, 1992,pg 46
96. S.V Raj and A.D. Freed: *Mater. Sci. Eng*, A 283 , 2000,pg 196
97. F.H Hammand and W.D Nix: *Trans. Am. Soc. Metals*, vol 59 1996, pg 94.
98. J.C.M Li: 'Dislocations in Solids', ISBN 90674-043-4
99. P.L Threadgill and B. Wilshire: 'Proc. Conf on creep strength of steels'; The Metal Society, London, 1974, pg 8
100. O.D Sherby: *Acta Metal*, vol. 10, 1962 ,pg 135
101. W. J Evans and G.F Harrison: 'The development of a universal equation for secondary creep rates in pure metals and engineering alloys'; *Metal Sci.* 1976, pg 307
102. A.K Mukherjee, J.E Bird and J.E Dorn: *Trans ASM*, vol. 62, 1969, pg 155

103. U.F Kocks, A.S Argon and M.F Ashby: '*Thermodynamics and kinetics of slip*'; *Prog. Mater. Sci.*, vol. 19, 1975, pg1
104. E. Orowan: *Proc. Phys. Soc*, vol.52, 1940,pg 8
105. H.D Chandler and T Jamiru: *Mater. Science and Technology*, March 2004, vol. 20, pg 382-386
106. M.B Bever: '*Creep and Recovery*'; A.S.M., Metals Park, Ohio, 1957,pg 14
107. P.W Davies, G. Nelmes, K.R. Williams, and B. Wilshire: *ibid.*, vol. 7,1973, pg 87
- 108.. P.S Follansbee and U.F Kocks: *Acta Metall.*, vol.36, 1988, pg 81
109. H.D. Chandler and S. Kwofie: 'A physically based model for mechanical hysteresis behaviour'; Proc. 2nd South African Conference on Applied Mechanics, (BD Reddy et al eds), UCT, Cape Town, RSA, 1998,pp 123-134