

# References

1. Suri, S., Viswanathan, G.B., Neeraj, T., Hou, D.-H. & Mills, M.J. (1999) *Acta Mater.*, **47**, 1019.
2. Kassner, M.E., Rosen, R.S. & Henshall, G.A. (1990) *Metall. Trans.*, **21A**, 3085.
3. Basinski, Z.S. (1959) *Phil. Mag.*, **4**, 393.
4. Young, C.M., Robinson, S.L. & Sherby, O.D. (1975) *Acta Metall.*, **23**, 633.
5. Sherby, O.D. & Weertman, J. (1979) *Acta Metall.*, **27**, 387.
6. Sherby, O.D., Klundt, R.J. & Miller, A.K. (1977) *Metall. Trans. A*, **8A**, 843.
7. Kassner, M.E. (1986) *Res Mechanica*, **18**, 179.
8. Kassner, M.E. (1982) *Scripta Metall.*, **16**, 265.
9. Logan, R., Mukherjee, A.K. & Castro, R.G. (1983) *Scripta Metall.*, **17**, 741.
10. Biberger, M. & Gibeling, J.C. (1995) *Acta Metall. et Mater.*, **43**, 3247.
11. Kassner, M.E., Pollard, J., Cerri, E. & Evangelista, E. (1994) *Acta Metall. et Mater.*, **42**, 3223.
12. Kassner, M.E. (1989) *Metall. Trans.*, **20A**, 2001.
13. Hughes, D.A. & Nix, W.D. (1988) *Metall. Trans.*, **19A**, 3013.
14. Adenstedt, H.K. (1949) *Metal Progress*, **65**, 658.
15. Tozera, T.A., Sherby, O.D. & Dorn, J.E. (1957) *Trans. ASM*, **49**, 173.
16. Sherby, O.D. & Burke, P.M. (1967) *Prog. Mater. Sci.*, **13**, 325.
17. Takeuchi, S. & Argon, A.S. (1975) *J. Mater. Sci.*, **11**, 1542.
18. Argon, A.S. (1996) *Physical Metallurgy*, Cahn, R.W. & Haasen, P. Eds., Elsevier, p. 1957.
19. Orlova, A. & Cadek, J. (1986) *Mater. Sci. and Eng.*, **77**, 1.
20. Cadek, J. (1988) *Creep in Metallic Materials*, Elsevier, Amsterdam.
21. Mukherjee, A.K. (1975) *Treatise on Materials Science and Technology*, Arsenault, R.J., Ed., Academic, New York, Vol. 6., p. 163.
22. Blum, W. (1993) Plastic Deformation and Fracture, in Cahn, R.W., Haasen, P. & Kramer, E.J. Eds. *Materials Science and Technology*, Mughrabi, H., Ed. VCH Publishers, Weinheim, Vol. 6, p. 339.
23. Nabarro, F.R.N. and de Villers, H.L. (1995). *The Physics of Creep*, Taylor and Francis, London.
24. Weertman, J. (1983) *Physical Metallurgy*, 3rd ed., Cahn, R.W. & Haasen, P., Eds. Elsevier, Amsterdam.
25. Weertman, J. (1999) *Mechanics and Materials Interlinkage*, John Wiley.
26. Nix, W.D. & Ilschner, B. (1980) *Strength of Metals and Alloys*, Haasen, P., Gerold, V. & Kosterz, G. Eds., Pergamon, Oxford, p. 1503.
27. Nix, W.D. & Gibeling, J.C. (1985) *Flow and Fracture at Elevated Temperatures*, Raj, R. Ed., ASM, Materials Park, OH, p. 1.
28. Evans, R.W. & Wilshire, B. (1985) *Creep of Metals and Alloys*, Inst. of Metals, London.
29. Kassner, M.E. and Pérez-Prado, M.-T. (2000) *Progress Mater. Sci.*, **45**, 1.
30. Evans, H.E. (1984) *Mechanisms of Creep Fracture*, Elsevier App. Science, London.
31. Shrzypek, J.J. (1993) *Plasticity and Creep*, CRC Press, Boca Raton.
32. Gittus, J. (1975) *Creep, Viscoelasticity and Creep Fracture in Solids*, Applied Science Pub., London.

33. Frost, H.J. & Ashby, M.E. (1982) *Deformation Mechanisms Maps, The Plasticity and Creep of Metals and Ceramics*, Pergamon Press.
34. Norton, E.H. (1929) *Creep of Steel at High Temperatures*, McGraw Hill, New York.
35. Monkman, F.C. & Grant, N.J. (1956) *Proc. ASTM*, **56**, 593.
36. Yavari, P. & Langdon, T.G. (1982) *Acta Metall.*, **30**, 2181.
37. McQueen, H.J., Solberg, J.K., Ryum, N. & Nes, E. (1989) *Phil. Mag. A*, **60**, 473.
38. Shrivastava, S.C., Jonas, J.J. & Canova, G.R. (1982) *J. Mech. Phys. Sol.*, **30**, 75.
39. Kassner, M.E., Nguyen, N.Q., Henshall, G.A. & McQueen, H.J. (1991) *Mater. Sci. Eng.*, **A132**, 97.
40. Campbell, A.N., Tao, S.S. & Turnbull, D. (1987) *Acta Metall.*, **35**, 2453.
41. Porrier, J.P. (1978) *Acta Metall.*, **26**, 629.
42. Morris, M.A. & Martin, J.L. (1984) *Acta Metall.*, **32**, 1609.
43. Morris, M.A. & Martin, J.L. (1984) *Acta Metall.*, **32**, 549.
44. Luthy, H., Miller, A.K. & Sherby, O.D. (1980) *Acta Metall.*, **28**, 169.
45. Goods, S.H. & Nix, W.D. (1978) *Acta Metall.*, **26**, 753.
46. Hughes, D.A., Liu, Q., Chrzan, D.C. & Hansen, N. (1997) *Acta Mater.*, **45**, 105.
47. Gil Sevillano, J., Van Houtte, R.V. and Aernoudt, E. (1980) *Prog. Mater. Sci.*, **25**, 69.
48. Garofalo, F. (1965) *Fundamentals of Creep Rupture in Metals*, Macmillan, New York.
49. Bird, J.E., Mukherjee, A.K. & Dorn, J.E. (1969) *Quantitative Relations Between Properties and Microstructure*, Brandon, D.G. & Rosen, A. Eds., Israel Univ. Press, Jerusalem, p. 255.
50. Harper, J. & Dorn, J.E. (1957) *Acta Metall.*, **5**, 654.
51. Herring, C. (1950) *J. Appl. Phys.*, **21**, 437.
52. Coble, R.L. (1963) *J. Appl. Phys.*, **34**, 1679.
53. Wu, M.Y. & Sherby, O.D. (1984) *Acta Metall.*, **32**, 1561.
54. Ardell, A.J. (1997) *Acta Mater.*, **45**, 2971.
55. Blum, W. & Maier, W. (1999) *Phys. Stat. Sol. A*, **171**, 467.
56. Owen, D.M. & Langdon, T.G. (1996) *Mater. Sci. and Eng.*, **A216**, 20.
57. Greenwood, G.W. (1994) *Scripta Metall. et Mater.*, **30**, 1527.
58. Bilde-Sorenson, J.B. and Smith, D.A. (1994) *Scripta Metall. et Mater.*, **30**, 1527.
59. Wolfenstine, J., Ruano, O.A., Wadsworth, J. & Sherby, O.D. (1993) *Scripta Metall. et Mater.*, **29**, 515.
60. Burton, B. & Reynolds, G.L. (1995) *Mater. Sci. and Eng.*, **A191**, 135.
61. Ruano, O.A., Wadsworth, J., Wolfenstine, J. & Sherby, O.D. (1993) *Mater. Sci. and Eng.*, **A165**, 133.
62. Konig, G. & Blum, W. (1980) *Strength of Metals and Alloys*, Haasen, P., Gerold, V. & Kostorz, G. Eds., Pergamon, Oxford, p. 363.
63. Shewmon, P. (1989) *Diffusion in Solids*, 2nd ed., TMS, Warrendale, PA.
64. Sherby, O.D., Lytton, J.L. & Dorn, J.E. (1957) *Acta Metall.*, **5**, 219.
65. Landon, P.R., Lytton, J.L., Shepard, L.A. & Dorn, J.E. (1959) *Trans. ASM*, **51**, 900.
66. Cuddy, L.J. (1970) *Metall. Trans.*, **1A**, 395.
67. Thompson, A.W. & Odegard, B. (1973) *Metall. Trans.*, **4**, 899.
68. Sherby, O.D. & Miller, A.K. (1979) *J. Eng. Mater., Technol.*, **101**, 387.
69. Spingarn, J.R., Barnett, D.M. & Nix, W.D. (1979) *Acta Metall.*, **27**, 1549.
70. Raj, S.V. & Langdon, T.G. (1989) *Acta Metall.*, **37**, 843.
71. Mecking, H. & Estrin, Y. (1980) *Scripta Metall.*, **14**, 815.
72. Mukherjee, A.K., Bird, J.E. & Dorn, J.E. (1969) *ASM Trans. Quart.*, **62**, 155.

73. Mohamed, F.A. & Langdon, T.G. (1974) *Acta Metall.*, **22**, 779.
74. Ardell, A.J. & Sherby, O.D. (1961) *Trans. AIME*, **239**, 1547.
75. Hood, G.M., Zou, H., Schultz, R.J., Bromley, E.H. & Jackman, J.A. (1994) *J. Nuc. Mater.*, **217**, 229.
76. Straub, S. & Blum, W. (1990) *Scripta Metall. et Mater.*, **24**, 1837.
77. Blum, W. (1991) *Hot Deformation of Aluminum Alloys*, Langdon, T.G., Merchant, H.D., Morris, J.G. & Zaidi, M.A. Eds., TMS, Warrendale, PA. p.181.
78. Kassner, M.E., M.-T. Perez-Prado, Long, M. & Vecchio, K.S. (2002) *Metall. and Mater. Trans.*, **33A**, 311.
79. Viswanathan, G.V., Karthikeyan, S., Hayes, R.W. & Mills, H.J. (2002) *Metall. and Mater. Trans.*, 33 in press.
80. Hayes, T.A., Kassner, M.E. & Rosen, R.S. (2002) *Metall. and Mater. Trans.*, 33 in press.
81. Blum, W. (1999) private communication.
82. Wilshire, B. (2002) *Metall. and Mater. Trans.*, 33.
83. Evans, R.W. & Wilshire, B. (1987) *Creep and Fracture of Structural Materials*, Wilshire, B. & Evans, R.W. Eds., Inst. Metals, London. p. 59.
84. McLean, D. (1968) *Trans. AIME*, **22**, 1193.
85. Ostrom, P. & Lagneborg, R. (1980) *Res Mechanica*, **1**, 59.
86. Ardell, A.J. & Przystupa, M.A. (1984) *Mech. Mater.*, **3**, 319.
87. Friedel, J., *Dislocations*, Pergamon Press, Oxford, 1964.
88. Hull, D. & Bacon, D.J. (1984) *Introduction to Dislocations*, 3rd edn, Butterworth, Heinemann, Oxford.
89. Ginter, T.J. & Mohamed, F.A. (1982) *J. Mater. Sci.*, **17**, 2007.
90. Straub, S. & Blum, W. (1996) *Hot Workability of Steels and Light Alloys*, McQueen, H.J., Konopleva, E.V. & Ryan, N.D. Eds., Canadian Inst. Mining, Metallurgy and Petroleum, Montreal, Quebec. p. 1889.
91. Hirsch, P.B., Howie, A., Nicholson, P.B., Pashley, D.W. & Whelan, M.J. (1977) *Electron Microscopy of Thin Crystals*, Kreiger, New York.
92. Blum, W., Absenger, A. & Feilhauer, R. (1980) *Strength of Metals and Alloys*, Haasen, P., Gerold, V. & Kosterz, G. Eds., Pergamon Press, Oxford, p. 265.
93. Hausselt, J. & Blum, W. (1976) *Acta Metall.*, **24**, 1027.
94. Randle, V. (1993) *The Measurement of Grain Boundary Geometry*, IOP, London.
95. Cailliard, D. & Martin, J.L. (1982) *Acta Metall.*, **30**, 791.
96. Cailliard, D. & Martin, J.L. (1982) *Acta Metall.*, **30**, 437.
97. Cailliard, D. & Martin, J.L. (1983) *Acta Metall.*, **31**, 813.
98. Kassner, M.E., Elmer, J.W. & Echer, C.J. (1986) *Metall. Trans. A*, **17**, 2093.
99. Kassner, M.E. (1984) *Mater. Lett.*, **5B**, 451.
100. Raj, S.V. & Pharr, G.M. (1986) *Mater. Sci. and Eng.*, **81**, 217.
101. Ardell, A.J. & Lee, S.S. (1986) *Acta Metall.*, **34**, 2411.
102. Lin, P., Lee, S.S. & Ardell, A.J. (1989) *Acta Metall.*, **37**, 739.
103. Challenger, K.D. & Moteff, J. (1973) *Metall. Trans.*, **4**, 749.
104. Parker, J.D. & Wilshire, B. (1980) *Phil. Mag.*, **41A**, 665.
105. Evans, E. & Knowles, G. (1977) *Acta Metall.*, **25**, 963.
106. Ajaja, O. (1990) *Scripta Metall.*, **24**, 1435.
107. Kassner, M.E. (1990) *J. Mater. Sci.*, **25**, 1997.
108. Shi, L.Q. & Northwood, D.O. (1995) *Phys Stat. Sol. A*, **149**, 213.

109. Burton, B. (1982) *Phil. Mag.*, **45**, 657.
110. Kassner, M.E., Miller, A.K. & Sherby, O.D. (1982) *Metall. Trans. A*, **13**, 1977.
111. Kassner, M.E., Ziaai-Moayyed, A.A. and Miller, A.K. (1985) *Metall. Trans A*, **16**, 1069.
112. Karashima, S., Iikubo, T., Watanabe, T. & Oikawa, H. (1971) *Trans. Jpn. Inst. Metals*, **12**, 369.
113. Hofmann, U. & Blum, W. (1993) *7th Inter. Symp. on Aspects of High Temperature Deformation and Fracture of Crystalline Materials*, Jap. Inst. Metals, Sendai, p. 625.
114. Gibbs, G.B. (1966) *Phil. Mag.*, **13**, 317.
115. Ahlquist, C.N. & Nix, W.D. (1969) *Scripta Metall.*, **3**, 679.
116. Ahlquist, C.N. & Nix, W.D. (1971) *Acta Metall.*, **19**, 373.
117. Gibeling, J.C. & Nix, W.D. (1980) *Acta Metall.*, **28**, 1743.
118. Mills, M.J., Gibeling, J.C. & Nix, W.D. (1985) *Acta Metall.*, **33**, 1503.
119. Gibeling, J.C. & Nix, W.D. (1980) *Mater. Sci. and Eng.*, **45**, 123.
120. Nakayama, G.S. & Gibeling, J.C. (1990) *Acta Metall.*, **38**, 2023.
121. Weckert, E. & Blum, W. (1979) *Strength of Metals and Alloys*, McQueen, H.J., J.-P. Bailon, Dickson, J.I., Jonas, J.J. & Akben, M.G. Eds., Pergamon Press, Oxford. p. 773.
122. Blum, W., Cegielska, A., Rosen, A. & Martin, J.L. (1989) *Acta Metall.*, **37**, 2439.
123. Blum, W. & Finkel, A. (1982) *Acta Metall.*, **30**, 1705.
124. Blum, W. & Weckert, E. (1987) *Mater. Sci. and Eng.*, **86**, 147.
125. Muller, W., Biberger, M. & Blum, W. (1992) *Phil. Mag.*, **A66**, 717.
126. Evans, R.W., Roach, W.J.F. & Wilshire, B. (1985) *Mater. Sci. and Eng.*, **73**, L5.
127. Ferreira, P.I. & Stang, R.G. (1983) *Acta Metall.*, **31**, 585.
128. Mohamed, F.A., Soliman, M.S. & Mostofa, M.S. (1985) *Phil Mag.*, **51**, 1837.
129. Huang, Y. & Humphreys, F.J. (1997) *Acta Mater.*, **45**, 4491.
130. Carrard, M. & Martin, J.L. (1985) *Strength of Metals and Alloy*, McQueen, H.J., Bailon, J.-P., Dickson, J.I., Jonas, J.J. & Akben, M.G. Eds., Pergamon Press, Oxford. p. 665.
131. Northwood, D.O. & Smith, I.O. (1989) *Phys. Stat. Sol. (a)*, **115**, 1495.
132. Kassner, M.E. & Mukherjee, A.K. (1983) *Scripta Metall.*, **17**, 741.
133. Kocks, U.F., Argon, A.S. & Ashby, M.F. (1975) *Prog. Mater. Sci.*, **19**, 1.
134. Parker, J.D. & Wilshire, B. (1976) *Phil. Mag.*, **34**, 485.
135. Blum, W., Hausselt, J. and König, G. (1976) *Acta Metall.*, **24**, 239.
136. Straub, S., Blum, W., Maier, H.J., Ungar, T., Borberly, A. & Renner, H. (1996) *Acta Mater.*, **44**, 4337.
137. Argon, A.S. & Takeuchi, S. (1981) *Acta Metall.*, **29**, 1877.
138. Mughrabi, H. (1983) *Acta Metall.*, **31**, 1367.
139. Nix, W.D., Gibeling, J.C. & Fuchs, K.P. (1982) *Mechanical Testing for Deformation Model Development*, ASTM STP 765, Rhode, R.W. & Swearingin, J.C. Eds., ASTM, p. 301
140. Peralta, P., Llanes, P., Bassani, J. & Laird, C. (1994) *Phil. Mag.*, **70A**, 219.
141. Hughes, D.A. & Godfrey, A. (1998) *Hot Deformation of Aluminum Alloys*, Bieler, T.A., Lalli, L.A. & MacEwen, S.R. Eds., TMS, Warrendale, PA, p. 23.
142. Kassner, M.E. (1989) *Metall. Trans.*, **20A**, 2182.
143. Thiesen, K.E., Kassner, M.E., Pollard, J., Hiatt, D.R. & Bristow, B. (1993) *Titanium '92*, Froes, F.H. & Caplan, I.L. Eds., TMS, Warrendale, PA, p. 1717.
144. Widersich, H. (1964) *J. Met.*, **16**, 423.
145. Kocks, U.F. (1980) *Strength of Metals and Alloys*, Haasen, P., Gerold, V. & Kostorz, G. Eds., Pergamon Press, Oxford. p. 1661.

146. Kassner, M.E. & McMahon, M.E. (1987) *Metall. Trans.*, **18A**, 835.
147. Kassner, M.E. & Li, X. (1991) *Scripta Metall et Mater.*, **25**, 2833.
148. Kassner, M.E. (1993) *Mater. Sci. Eng.*, **166**, 81.
149. Kassner, M.E. & Kyle, K. (2003) *Acta Mater.*, in press.
150. Bailey, J.E. & Hirsch, P.B. (1960) *Phil. Mag.*, **5**, 485.
151. Jones, R.L. & Conrad, H. (1969) *TMS, AIME*, **245**, 779.
152. Ajaja, O. & Ardell, A.J. (1977) *Scripta Metall.*, **11**, 1089.
153. Ajaja, O. & Ardell, A.J. (1979) *Phil. Mag.*, **39**, 65.
154. Shi, L. & Northwood, D.O. (1993) *Phys. Stat. Sol. (a)*, **137**, 75.
155. Shi, L. & Northwood, D.O. (1993) *Phys. Stat. Sol. (a)*, **140**, 87.
156. Henshall, G.A., Kassner, M.E. & McQueen, H.J. (1992) *Metall. Trans.*, **23A**, 881.
157. Mills, M.J., unpublished research, presented at the Conference for Creep and Fracture of Structural Materials, Swansea, UK, April 1987.
158. Da, E.N., Andrade, C. (1910) *Proc. Royal Soc.*, **A84**, 1.
159. Cottrell, A.H. & Aytakin, V. (1947) *Nature*, **160**, 328.
160. Conway, J.B. (1967) *Numerical Methods for Creep and Rupture Analyses*, Gordon and Breach, New York.
161. Garofalo, F., Richmond, C., Domis, W.F. and von Gemmingen, F. (1963) *Proc. Joint. Int. Conf. on Creep*, Inst. Mech. Eng., London, p. 1.
162. Barrett, C.R., Nix, N.D. & Sherby, O.D. (1966) *Trans. ASM*, **59**, 3.
163. Sikka, V.K., Nahm, H. & Moteff, J. (1975) *Mater. Sci. Eng.*, **20**, 55.
164. Orlova, A., Pahutova, M. & Cadek, J. (1972) *Phil. Mag.*, **25**, 865.
165. Daily, S. & Ahlquist, C.N. (1972) *Scripta Metall.*, **6**, 95.
166. Orlova, A., Tobolova, Z. & Cadek, J. (1972) *Philos. Mag.*, **26A**, 1263.
167. Suh, S.H., Cohen, J.B. & Weertman, J. (1981) *Metall. Trans.*, **12**, 361.
168. Petry, F. & Pchenitzka, F.P. (1984) *Mater. Sci. Eng.*, **68**, L7.
169. Kassner, M.E., *Acta Mater.*, 2003, in press.
170. Langdon, T.G., Vastava, R.D. & Yavari, P. (1980) *Strength of Metals and Alloys*, Haasen, P., Gerold, V. & Kostorz, G. Eds., Pergamon, Oxford. p. 271.
171. Evans, B.W., Roach, W.J.F. & Wilshire, B. (1985) *Scripta Metall.*, **19**, 999.
172. Delos-Reyes, M.M.S. (1996) Thesis, Department of Mechanical Engineering, Oregon State University, Corvallis, OR.
173. Sleswyk, A.W., James, M.R., Plantinga, D.H. & Maathuis, W.S.T. (1978) *Acta Metall.*, **126**, 1265.
174. Orowan, E. (1959) *Internal Stress and Fatigue in Metals*, General Motors Symposium, Elsevier, Amsterdam. p. 59.
175. Hasegawa, T., Ikeuchi, Y. & Karashima, S. (1972) *Metal. Sci.*, **6**, 78.
176. Mughrabi, H. (1981) *Mater. Sci. Eng. A*, **85**, 15.
177. Derby, B. & Ashby, M.F. (1987) *Acta Metall*, **35**, 1349.
178. Vogler, S. & Blum, W. (1990) *Creep and Fracture of Engineering Materials and Structures*, Wilshire, B. & Evans, R.W. Eds., Inst. Metals, London. p. 65.
179. Lepinoux, J. & Kubin, L.P. (1985) *Phil. Mag., A*, **57**, 675.
180. Kassner, M.E., Delos-Reyes, M.A. and Wall, M.A. (1997) *Metall. and Mater. Trans.*, **28A**, 595.
181. Borbély, A., Hoffmann, G., Aernoudt, E. & Ungar, T. (1997) *Acta Mater.*, **45**, 89.
182. Kassner, M.E., Weber, F.J., Koike, J. & Rosen, R.S. (1996) *J. Mater. Sci.*, **31**, 2291.
183. Levine, L.E., private communication, March 1998.

184. Gaal, I. (1984) *Proc. 5th Int. Riso Symposium*, Hersel Andersen, N., Eldrup, M., Hansen, N., Juul Jensen, D., Leffers, T., Lilkolt, H., Pedersen, O.B. & Singh, B.N. Eds., Roskilde, Denmark, p. 249.
185. Kassner, M.E., M.T. Perez-Prado, Vecchio, K.S. & Wall, M.A. (2000) *Acta Mater.*, **48**, 4247.
186. Kassner, M.E., M.-T. Pérez-Prado and Vecchio, K.S., *Mater. Sci. and Eng.*, in press.
187. Weertman, J. (1975) *Rate Process in Plastic Deformation of Metals*, Li, J.C.M. & Mukherjee, A.K. (Eds.), ASM, Materials Park, OH, p. 315.
188. Weertman, J. (1968) *Trans. Quart. ASM*, **61**, 680.
189. Weertman, J. (1955) *J. Appl. Phys.*, **26**, 1213.
190. Barrett, C.R. & Nix, W.D. (1965) *Acta Metall.*, **12**, 1247.
191. Watanabe, T. & Karashima, S. (1970) *Trans. JIM*, **11**, 159.
192. Ivanov, L.I. & Yanushkevich, V.A. (1964) *Fiz. Metal. Metal.*, **17**, 112.
193. Blum, W. (1971) *Phys. Status. Solidi*, **45**, 561.
194. Weertman, J. (1984) *Creep and Fracture of Engineering Materials*, B. Wilshire, et al. Eds., Pineridge, Swansea. p. 1.
195. Weertman, J. & Weertman, J.R. (1987) *Constitutive Relations and Their Physical Basis*, Andersen, S.E., Bilde-Sorensen, J.B., Hansen, N., Leffers, T., Lilholt, H., Pedersen, O.B. & Ralph, B. Eds., *Proc. of 8th Riso Int. Symp. on Materials Science*, Risø, Denmark, p. 191.
196. Mitra, S.K. & McLean, D. (1967) *Metal. Sci.*, **1**, 192.
197. Lagneborg, R. (1972) *Metal Sci. J.*, **6**, 127.
198. Mott, N.F. (1956) *Conference on Creep and Fracture of Metals at High Temperatures*, H.M. Stationery Office, London.
199. Raymond, L. & Dorn, J. (1964) *Trans. Met. Soc. AIME*, **230**, 560.
200. Gittus, J. (1974) *Acta Metall.*, **22**, 789.
201. Nes, E., Blum, W. & Eisenlohr, P. (2002) *Metall. Mater. Trans. A*, **33**, 305.
202. Maruyama, K., Karashima, S. & Oikawa, H. (1983) *Res Mechanica*, **7**, 21.
203. Orowan, E. (1934) *Z. Physik*, **89**, 614.
204. Bailey, R.W. (1926) *Inst. Metals*, **35**, 27.
205. Daehn, G.S., Brehm, H. & Lim, B.S., in press.
206. Brehm, H. & Daehn, G.S. (2002) *Metall. Mater. Trans.*, **33A**, 363.
207. Bendersky, L., Rosen, A. & Mukherjee, A.K. (1985) *Int. Met. Rev.*, **30**, 1.
208. Parker, J.D. & Wilshire, B. (1978) *Metal. Sci.*, **12**, 453.
209. Li, J.C.M. (1960) *Acta Metall.*, **8**, 296.
210. Henderson-Brown, M. & Hale, K.F. (1974) *HVEM*, Swann, P.R., Humphreys, C.J. & Goringe, M.J. Eds., Academic Press, London, p. 206.
211. Klundt, R.J. (1978) PhD Thesis, Department of Materials Science and Engineering, Stanford University, Stanford, CA.
212. Parker, J.D. & Wilshire, B. (1980) *Mater. Sci. and Eng.*, **43**, 271.
213. Levinstein, H.J. & Robinson, W.H. (1963) *The Relations between Structure and the Mechanical Properties of Metal*, Symp. at the National Physical Lab., January 1963 (Her Majesty's Stationery Office), p. 180. From Weertman, J. & Weertman, J.L. (1983) *Physical Metallurgy*, Cahn, R.W. & Hassen, P. Eds., Elsevier, p. 1259.
214. Blum, W., private communication, 2002.
215. Nes, E. (1998) *Prog. in Mater. Sci.*, **41**, 129.
216. Gorman, J.A., Wood, D.S. & Vreeland, T. (1969) *J. App. Phys.*, **40**, 833.

217. Kocks, U.F., Stout, M.G. & Rollett, A.D. (1989) *Strength of Metals and Alloys*, V. 1, Kettunen, P.O., Lepistö, T.K. & Lehtonen, M.E. Eds., Pergamon, Oxford, p. 25.
218. Kassner, M.E., Myshlyaev, M.M. & McQueen, H.J. (1989) *Mater. Sci. and Eng.*, **108A**, 45.
219. McQueen, H.J., Knustad, O., Ryum, N. & Solberg, J.K. (1985) *Scripta Metall.*, **19**, 73.
220. Myshlyaev, M.M., Senkov, O.N. & Likhachev, V.A. (1985) in McQueen, H.J., Bailon, J.-P., Dickson, J.I., Jonas, J.J. & Akben, M.G. *Strength of Metals and Alloys*, Pergamon, Oxford, p. 841.
221. Schmidt, C.G., Young, C.M., Walser, B., Klundt, R.H. & Sherby, O.D. (1982) *Metall. Trans.*, **13A**, 447.
222. Doherty, R.D., Hughes, D.A., Humphreys, F.J., Jonas, J.J., Juul-Jensen, D., Kassner, M.E., King, W.E., McNelley, T.R., McQueen, H.J. & Rollett, A.D. (1997) *Mater. Sci. and Eng.*, **A238**, 219.
223. Matlock, D.K. & Nix, W.D. (1974) *Metall. Trans.*, **5A**, 961.
224. Petkovic, R.A., Luton, M.J. & Jonas, J.J. (1979) *Metal. Sci.*, 569.
225. Conrad, H. (1963) *Acta Metall.*, **11**, 75.
226. Hansen, D. & Wheeler, M.A. (1931) *J. Inst. Met.*, **45**, 229.
227. Weinberg, F.A. (1958) *Trans. AIME*, **212**, 808.
228. Barrett, C.R., Lytton, J.L. & Sherby, O.D. (1967) *Trans. TMS-AIME*, **239**, 170.
229. Garofalo, F., Domis, W.F. and von Gemmingen, R. (1968) *Trans. TMS-AIME*, **240**, 1460.
230. Kikuchi, S. & Yamaguchi, A. (1985) *Strength of Metals and Alloys*, McQueen, H.J., Bailon, J.-P., Dickson, J.I., Jonas, J.J. & Akben, M.G. Eds., Pergamon Press, Oxford, p. 899.
231. Kassner, M.E. (1995) *Grain Size and Mechanical Properties: Fundamentals and Applications*, Ootoni, M.A., Armstrong, R.W., Grant, N.J. & Rshizaki, K. Eds., *MRS*, p. 157.
232. Al-Haidary, J.T., Petch, M.J. and Delos-Rios, E.R. (1983) *Phil. Mag.*, **47A**, 863.
233. Perdrix, C., Perrin, Y.M. & Montheillet, F. (1981) *Mem. Sci. Rev. Metall.*, **78**, 309.
234. Evans, W.J. & Wilshire, B. (1974) *Scripta Metall.*, **8**, 497.
235. Evans, W.J. & Wilshire, B. (1970) *Metall. Trans.*, **1**, 2133.
236. Warda, R.D., Fidleris, V. & Teghtsoonian, E. (1973) *Metall. Trans.*, **4**, 1201.
237. Nabarro, F.R.N. (1948) *Rept. of Conf. on the Solids*, The Physical Society, London, p. 75.
238. Greenwood, G.W. (1992) *Proc. R. Soc. Lond. A*, **436**, 187.
239. Fiala, J. & Cadek, J. (1985) *Mater. Sci. Eng.*, **75**, 117.
240. Fiala, J., Novotny, J. & Cadek, J. (1983) *Mater. Sci. Eng.*, **60**, 195.
241. Crossland, I.G. & Jones, R.B. (1977) *Met. Sci.*, **11**, 504.
242. Sriharan, T. & Jones, H. (1979) *Acta Metall.*, **27**, 1293.
243. Mishra, R.S., Jones, H. & Greenwood, G.W. (1989) *Phil. Mag. A*, **60**(6), 581.
244. Pines, B. Ya. and Sirenko, A.F. (1959) *Fiz. Met. Metall.*, **7**, 766.
245. Jones, R.B. (1965) *Nature*, **207**, 70.
246. Burton, B. & Greenwood, G.W. (1970) *Acta Metall.*, **18**, 1237.
247. Harris, K.E. & King, A.H. (1998) *Acta Mater.*, **46**(17), 6195.
248. Coble, R.L. (1965) *High Strength Materials*, John Wiley, New York.
249. Burton, B. & Reynolds, G.L. (1975) *Physical Metallurgy of Reactor Fuel Elements*, Metals Soc., London, p. 87.

250. Folweiler, R. (1950) *J. Appl. Phys.*, **21**, 437.
251. Warshau, S.I. & Norton, F.H. (1962) *J. Am. Ceram. Soc.*, **45**, 479.
252. Chang, R. (1959) *J. Nucl. Mater.*, **2**, 174.
253. Bernstein, I.M. (1967) *Trans. AIME*, **239**, 1518.
254. Burton, B. & Greenwood, G.W. (1970) *Met. Sci. J.*, **4**, 215.
255. Crossland, I.G. (1975) *Physical Metallurgy of Reactor Fuel Elements*, Metals Soc., London, p. 66.
256. Crossland, I.G., Burton, B. & Bastow, B.D. (1975) *Metal Sci.*, **9**, 327.
257. Towle, D.J. & Jones, H. (1975) *Acta Metall.*, **24**, 399.
258. Passmore, E.M., Duff, R.H. & Vasilos, T.S. (1966) *J. Am. Ceram. Soc.*, **49**, 594.
259. Langdon, T.G. & Pask, J.A. (1970) *Acta Metall.*, **18**, 505.
260. Knorr, D.B., Cannon, R.M. & Coble, R.L. (1989) *Acta Metall.*, **37**(8), 2103.
261. Langdon, T.G. (1996) *Scripta Mater.*, **35**(6), 733.
262. Harris, J.E. (1973) *Met. Sci. J.*, **7**, 1.
263. Squires, R.L., Weiner, R.T. & Phillips, M. (1963) *J. Nucl. Mat.*, **8**(1), 77.
264. *Proc. Int. Conf. Creep of Advanced Materials for the 21st Century*, San Diego, 1999, TMS, Warrendale, PA, in press.
265. Ruano, O.A., Sherby, O.D., Wadsworth, J. & Wolfenstine, J. (1998) *Scripta Mater.*, **38**(8), 1307.
266. Wadsworth, J., Ruano, O.A. & Sherby, O.D. (2002) *Metall. Mater. Trans.*, **33A**, 219.
267. Ruano, O.A., Wadsworth, J. and Sherby, O.D. (1988) *Scripta Metall.*, **22**, 1907.
268. Ruano, O.A., Sherby, O.D., Wadsworth, J. & Wolfenstine, J. (1996) *Mater. Sci. Eng. A*, **211**, 66.
269. Barrett, C.R., Muehleisen, E.C. & Nix, W.D. (1972) *Mater. Sci. Eng. A*, **10**, 33.
270. Wang, J.N. (1994) *J. Mater. Sci.*, **29**, 6139.
271. Kloc, L. (1996) *Scripta Mater.*, **35**(6), 733.
272. Fiala, J. & Langdon, T.G. (1992) *Mater. Sci. Eng. A*, **151**, 147.
273. Greenfield, P., Smith, C.C. & Taylor, A.M. (1961) *Trans. AIME*, **221**, 1065.
274. McNee, K.R., Greenwood, G.W. & Jones, H. (2002) *Scripta Mater.*, **46**, 437.
275. McNee, K.R., Greenwood, G.W. & Jones, H. (2001) *Scripta Mater.*, **44**, 351.
276. Nabarro, F.R.N. (2002) *Metall. Mater. Trans. A*, **33**, 213.
277. Nabarro, F.R.N. (1999) private communication, San Diego, CA.
278. Lifshitz, I.M. (1963) *Sov. Phys. (JETP)*, **17**, 909.
279. Mori, T., Onaka, S. & Wakashima, K. (1998) *J. Appl. Phys.*, **83**(12), 7547.
280. Onaka, S., Huang, J.H., Wakashima, K. & Mori, T. (1998) *Acta Mater.*, **46**(11), 3821.
281. Onaka, S., Madgwick, A. & Mori, T. (2001) *Acta Mater.*, **49**, 2161.
282. Sahay, S.S. & Murty, G.S. (2001) *Scripta Mater.*, **44**, 841.
283. Burton, B. (1977) *Diffusional Creep of Polycrystalline Materials*, Trans. Tech. Publications, Zurich, Switzerland, p. 61.
284. Stevens, R.N. (1971) *Phil. Mag.*, **23**, 265.
285. Aigeltinger, A.E. & Gifkins, R.C. (1975) *J. Mater. Sci.*, **10**, 1889.
286. Cannon, W.R. (1972) *Phil. Mag.*, **25**, 1489.
287. Gates, R.S. (1975) *Phil. Mag.*, **31**, 367.
288. Arieli, A., Gurewitz, G. & Mukherjee, A.K. (1981) *Metals Forum*, **4**, 24.
289. Gibbs, G.B. (1980) *Mater. Sci. Eng. A*, **2**, 262.
290. Raj, R. & Ashby, M.F. (1971) *Metall. Trans.*, **2**, 1113.
291. Beere, W.B. (1976) *Met. Sci.*, **10**, 133.



292. Speight, M.V. (1975) *Acta Metall.*, **23**, 779.
293. Mott, N.F. (1953) *Proc. Roy. Soc. A*, **220**, 1.
294. Mohamed, F.A., Murty, K.L. & Morris, J.W. (1973) *Metall. Trans.*, **4**, 935.
295. Yavari, P., Miller, D.A. & Langdon, T.G. (1982) *Acta Metall.*, **30**, 871.
296. Mohamed, F.A. & Ginter, T.J. (1982) *Acta Metall.*, **30**, 1869.
297. Malakondaiah, G. and Rama Rao, P. (1981) *Acta Metall.*, **29**, 1263.
298. Novotny, J., Fiala, J. & Cadek, J. (1985) *Acta Metall.*, **33**, 905.
299. Malakondaiah, G. and Rama Rao, P. (1982) *Mater. Sci. Eng.*, **52**, 207.
300. Dixon-Stubbs, P.G. and Wilshire, B. (1982) *Phil. Mag. A*, **45**, 519.
301. Langdon, T.G. (1983) *Phil. Mag. A*, **47**, L29.
302. Ruano, O.A., Wolfenstine, J., Wadsworth, J. & Sherby, O.D. (1991) *Acta Metall. Mater.*, **39**, 661.
303. Ruano, O.A., Wolfenstine, J., Wadsworth, J. & Sherby, O.D. (1992) *J. Am. Ceram. Soc.*, **75**(7), 1737.
304. Ramesh, K.S., Yasuda, E.Y. & Kimura, S. (1986) *J. Mater. Sci.*, **21**, 3147.
305. Wang, J.N. (1994) *Scripta Metall. Mater.*, **30**, 859.
306. Wang, J.N. (1994) *Phil. Mag. Lett.*, **70**(2), 81.
307. Wang, J.N., Shimamoto, T. & Toriumi, M. (1994) *J. Mater. Sci. Lett.*, **13**, 1451.
308. Wang, J.N. (1994) *J. Am. Ceram. Soc.*, **77**(11), 3036.
309. Banerdt, W.B. & Sammis, C.G. (1985) *Phys. Earth Planet. Int.*, **41**, 108.
310. Wolfenstine, J., Ruano, O.A., Wadsworth, J. & Sherby, O.D. (1991) *Scripta Metall. Mater.*, **25**, 2065.
311. Poirier, J.P., Peyronneau, J., Gesland, J.K. & Brebec, G. (1983) *Phys. Earth Planet. Int.*, **32**, 273.
312. Beauchesne, S. & Poirier, J.P. (1990) *Phys. Earth Planet. Int.*, **61**, 1982.
313. Wang, J.N., Hobbs, B.E., Ord, A., Shimamoto, T. & Toriumi, M. (1994) *Science*, **265**, 1204.
314. Wang, J.N. (1994) *Mater. Sci. Eng. A*, **183**, 267.
315. Wang, J.N. (1994) *Mater. Sci. Eng. A*, **187**, 97.
316. Berbon, M.Z. & Langdon, T.G. (1996) *J. Mater. Sci. Lett.*, **15**, 1664.
317. Mohamed, F.A. (1978) *Mater. Sci. Eng. A*, **32**, 37.
318. Langdon, T.G. & Yavari, P. (1982) *Acta Metall.*, **30**, 881.
319. Wang, J.N. & Langdon, T.G. (1994) *Acta Metall. Mater.*, **42**(7), 2487.
320. Weertman, J. & Blacic, J. (1984) *Geophys. Res. Lett.*, **11**, 117.
321. Nabarro, F.R.N. (1989) *Acta Metall.*, **37**(8), 2217.
322. Ruano, O.A., Wadsworth, J. & Sherby, O.D. (1988) *Acta Metall.*, **36**(4), 1117.
323. Wang, J.N. (1993) *Scripta Metall. Mater.*, **29**, 1267.
324. Wang, J.N. & Nieh, T.G. (1995) *Acta Metall.*, **43**(4), 1415.
325. Wang, J.N. (1995) *Phil. Mag.*, **71A**, 105.
326. Wang, J.N., Wu, J.S. & Ding, D.Y. (2002) *Mater. Sci. Eng. A*, **334**, 275.
327. Wang, J.N. (1995) *Phil. Mag. A*, **71**(1), 105.
328. Wang, J.N. (1996) *Acta Metall.*, **44**(3), 855.
329. Przystupa, M.A. & Ardell, A.J. (2002) *Metall. Mater. Trans. A*, **33**, 231.
330. Nabarro, F.R. (2000) *Phys. Stat. Sol.*, **182**, 627.
331. Blum, W., Eisenlohr, P. & Breutinger, F. (2002) *Metall. Mater. Trans. A*, **33**, 291.
332. Nes, E., Pettersen, T. & Marthinsen, K. (2000) *Scripta Mater.*, **43**, 55.
333. Marthinsen, K. & Ness, E. (2001) *Mater. Sci. Tech.*, **17**, 376.

334. Mohamed, F.A. (2002) *Metall. Mater. Trans. A*, **33**, 261.
335. Ginter, T.J., Chaudhury, P.K. & Mohamed, F.A. (2001) *Acta Mater.*, **49**, 263.
336. Ginter, T.J. & Mohamed, F.A. (2002) *Mater. Sci. Eng. A*, **322**, 148.
337. Langdon, T.G. (2002) *Metall. Mater. Trans. A*, **33**, 249.
338. Yavari, P., Mohamed, F.A. & Langdon, T.G. (1981) *Acta Metall.*, **29**, 1495.
339. Mohamed, F.A. (1998) *Mater. Sci. Eng. A*, **245**, 242.
340. Langdon, T.G. (1996) *Mater. Trans. JIM*, **37**(3), 359.
341. Oikawa, H., Sugawara, K. & Karashima, S. (1978) *Mater. Trans. JIM*, **19**, 611.
342. Endo, T., Shimada, T. & Langdon, T.G. (1984) *Acta Metall.*, **32**(11), 1991.
343. Sherby, O.D., Anderson, R.A. & Dorn, J.E. (1951) *Trans. AIME*, **191**, 643.
344. Weertman, J. (1960) *Trans. AIME*, **218**, 207.
345. Weertman, J. (1957) *J. Appl. Phys.*, **28**(10), 1185.
346. Lothe, J. (1962) *J. Appl. Phys.*, **33**(6), 2116.
347. Hirth, J.P. & Lothe, J. (1968) *Theory of Dislocations*, McGraw-Hill, NY, p. 584.
348. Oikawa, H., Matsuno, N. & Karashima, S. (1975) *Met. Sci.*, **9**, 209.
349. Horiuchi, R. & Otsuka, M. (1972) *Trans. JIM*, **13**, 284.
350. Cottrell, A.H. & Jaswon, M.A. (1949) *Proc. Roy. Soc. London A*, **199**, 104.
351. Fisher, J.C. (1954) *Acta Metall.*, **2**, 9.
352. Suzuki, H. (1957) *Sci. Rep. Res. Inst. Tohoku University A*, **4**, 455.
353. Shoenck, G. (1961) *Mechanical Behavior of Materials at Elevated Temperature*, Dorn, J.E. Ed., McGraw-Hill, New York, p. 77.
354. Snoek, J. (1942) *Physica*, **9**, 862.
355. Takeuchi, S. & Argon, A.S. (1976) *Acta Metall.*, **24**, 883.
356. Oikawa, H., Honda, K. & Ito, S. (1984) *Mater. Sci. Eng.*, **64**, 237.
357. Mohamed, F.A. & Langdon, T.G. (1974) *Acta Metall.*, **22**, 779.
358. Darken, L.S. (1948) *Trans. Am. Inst. Min. Engrs.*, **175**, 184.
359. Mohamed, F.A. (1983) *Mater. Sci. Eng.*, **61**, 149.
360. Soliman, M.S. & Mohamed, F.A. (1984) *Metall. Trans. A*, **15**, 1893.
361. Fuentes-Samaniego, R. and Nix, W.D. (1981) *Scripta Metall.*, **15**, 15.
362. Cannon, W.R. & Sherby, O.D. (1970) *Metall. Trans.*, **1**, 1030.
363. King, H.W. (1966) *J. Mater. Sci.*, **1**, 79.
364. Kassner, M.E., McQueen, H.J. & Evangelista, E. (1993) *Mater. Sci. Forum*, **113-115**, 151.
365. Laks, H., Wiseman, C.D., Sherby, O.D. & Dorn, J.E. (1957) *J. Appl. Mech.*, **24**, 207.
366. Sherby, O.D., Trozera, T.A. & Dorn, J.E. (1956) *Proc. Am. Soc. Test. Mat.*, **56**, 789.
367. Sherby, O.D. & Taleff, E.M. (2002) *Mater. Sci. Eng. A*, **322**, 89.
368. Oikawa, H., Kariya, J. & Karashima, S. (1974) *Met. Sci.*, **8**, 106.
369. Murty, K.L. (1973) *Scripta Metall.*, **7**, 899.
370. Murty, K.L. (1974) *Phil. Mag.*, **29**, 429.
371. Orlova, A. & Cadek, J. (1974) *Z. Metall.*, **65**, 200.
372. Mohamed, F.A. (1979) *Mater. Sci. Eng.*, **38**, 73.
373. Blum, W. (2001) *Mater. Sci. Eng. A*, **319-321**, 8.
374. Vagarali, S.S. & Langdon, T.G. (1982) *Acta Metall.*, **30**, 1157.
375. Jones, B.L. & Sellars, C.M. (1970) *Met. Sci. J.*, **4**, 96.
376. Oikawa, H., Maeda, M. & Karashima, S. (1973) *J JIM*, **37**, 599.
377. Matsuno, N., Oikawa, H. & Karashima, S. (1974) *J JIM*, **38**, 1071.
378. McNelley, T.R., Michel, D.J. & Salama, A. (1989) *Scripta Metall.*, **23**, 1657.

379. McQueen, H.J. & Kassner, M.E. (1990) *Superplasticity in Aerospace II*, McNelley, T.R. & Heikkinen, C. Eds., TMS, Warrendale, PA, p. 77.
380. Burke, M.A. & Nix, W.D. (1975) *Acta Metall.*, **23**, 793.
381. Hart, E.W. (1967) *Acta Metall.*, **15**, 351.
382. Taleff, E.M., Henshall, G.A., Nieh, T.G., Lesuer, D.R. & Wadsworth, J. (1998) *J. Metall. Trans.*, **29**, 1081.
383. Taleff, E.M., Lesuer, D.R. & Wadsworth, J. (1996) *J. Metall. Trans.*, **27A**, 343.
384. Taleff, E.M. & Nevland, P.J. (1999) *JOM*, **51**, 34.
385. Taleff, E.M. & Nevland, P.J. (2001) *Metall. Trans.*, **32**, 1119.
386. Watanabe, H., Tsutsui, H., Mukai, T., Kohzu, M., Tanabe, S. & Higashi, K. (2001) *Int. J. Plasticity*, **17**, 387.
387. Murty, K.L., Mohamed, F.A. & Dorn, J.E. (1972) *Acta Metall.*, **20**, 1009.
388. Chaudhury, P.K. & Mohamed, F.A. (1988) *Mater. Sci. Eng. A*, **101**, 13.
389. Nortman, A. and Neuhäuser, H. (1998) *Phys. Stat. Sol. (a)*, **168**, 87.
390. Blandin, J.J., Giunchi, D., Suéry, M. and Evangelista, E. (2002) *Mater. Sci. Tech.*, **18**, 333.
391. Li, Y. & Langdon, T.G. (1999) *Metall. Trans.*, **30**, 2059.
392. Tan, J.C. & Tan, M.J. (2003) *Mater. Sci. Eng. A*, **339**, 81.
393. Wadsworth, J., Dougherty, S.E., Kramer, P.A. & Nieh, T.G. (1992) *Scripta Metall. Mater.*, **27**.
394. Hayes, R.W. & Soboyejo, W.O. (2001) *Mater. Sci. Eng. A*, **319-321**, 827.
395. Mukhopadhyay, J., Kaschner, G.C. & Mukherjee, A.K. (1990) *Superplasticity in Aerospace II*, McNelley, T.R. & Heikkinen, C. Eds., TMS, Warrendale, PA, p. 33.
396. Nieh, T.G. & Oliver, W.C. (1989) *Scripta Metall.*, **23**, 851.
397. Hsiung, L.M. & Nieh, T.G. (1999) *Intermetallics*, **7**, 821.
398. Wolfenstine, J. (1990) *J. Mater. Sci. Lett.*, **9**, 1091.
399. Lin, D., Shan, A. & Li, D. (1994) *Scripta Metall. Mater.*, **31**(11), 1455.
400. Sundar, R.S., Kutty, T.R.G. & Sastry, D.H. (2000) *Intermetallics*, **8**, 427.
401. Li, D., Shan, A., Liu, Y. & Lin, D. (1995) *Scripta Metall. Mater.*, **33**, 681.
402. Yaney, D.L. & Nix, W.D. (1988) *J. Mater. Sci.*, **23**, 3088.
403. Yang, H.S., Lee, W.B. & Mukherjee, A.K. (1993) *Structural Intermetallics*, Darolia, R., Lewandowski, J.J., Liu, C.T., Martin, P.L., Miracle, D.B. & Nathal, M.V. Eds., TMS, Warrendale, PA. p. 69.
404. Li, Y. & Langdon, T.G. (1999) *Metall. Trans.*, **30**, 315.
405. González-Doncel, G. and Sherby, O.D. (1993) *Acta Metall.*, **41**, 2797.
406. Langdon, T.G. & Wadsworth, J. (1991) *Proc. Int. Conf. on Superplasticity in Advanced Materials*, Hori, S., Tokizane, M. & Furushiro, N. Eds., The Japan Society of Research on Superplasticity, Osaka, Japan. p. 847.
407. Bengough, G.D. (1912) *J. Inst. Metals*, **7**, 123.
408. Sherby, O.D., Nieh, T.G. & Wadsworth, J. (1994) *Materials Science Forum*, **13**, 170.
409. Pearson, C.E. (1934) *J. Inst. Metals*, **54**, 111.
410. Valiev, R.Z., Korznikov, A.V. & Mulyukov, R.R. (1993) *Mater. Sci. Eng. A*, **141**, 168.
411. Wakai, F., Sakaguchi, S. and Matsuno, Y. (1986) *Adv. Cerm. Mater.*, **1**, 259.
412. Langdon, T.G. (1993) *Ceramics International*, **19**, 279.
413. Wu, M.Y., Wadsworth, J. & Sherby, O.D. (1984) *Scripta Metall.*, **18**, 773 .
414. Sikka, V.K., Liu, C.T. & Loria, E.A. (1987) *Processing of Structural Metals by Rapid Solidification*, Froes, F.H. & Savage, S.J. Eds., ASM, Metals Park, Ohio, p. 417.
415. Sherby, O.D. & Wadsworth, J. (1989) *Prog. Mater. Sci.*, **33**, 169.

416. Kaibyshev, O.A. (1992) *Superplasticity of Alloys, Intermetallics and Ceramics*, Springer-Verlag, Berlin, Germany.
417. Chokshi, A.H., Mukherjee, A.K. & Langdon, T.G. (1993) *Mater. Sci. Eng. R*, **10**, 237.
418. Nieh, T.G., Wadsworth, J. & Sherby, O.D. (1997) *Superplasticity in Metals and Ceramics*, Clarke, D.R., Suresh, S. & Ward, I.M. Eds., Cambridge University Press, Cambridge, UK.
419. Nieh, T.G., Henshall, C.A. & Wadsworth, J. (1984) *Scripta Metall.*, **18**, 1405.
420. Higashi, K., Mabuchi, M. & Langdon, T.G. (1996) *ISIJ International*, **36**(12), 1423.
421. Valiev, R.Z., Salimonenko, D.A., Tsenev, N.K., Berbon, P.B. & Langdon, T.G. (1997) *Scripta Mater.*, **37**(12), 1945.
422. Komura, S., Berbon, P.B., Furukawa, M., Horita, Z., Nemoto, M. & Langdon, T.G. (1998) *Scripta Mater.*, **38**(12), 1851.
423. Berbon, P.B., Furukawa, M., Horita, Z., Nemoto, M., Tsenev, N.K., Valiev, R.Z. & Langdon, T.G. (1998) *Phil. Mag. Lett.*, **78**(4), 313.
424. Langdon, T.G., Furukawa, M., Horita, Z. & Nemoto, M. (1998) *J. Metals*, **50**(6), 41.
425. Cline, H.E. & Alden, T.H. (1967) *Trans. TMS-AIME*, **239**, 710.
426. Zehr, S.W. & Backofen, W.A. (1968) *Trans. ASM*, **61**, 300.
427. Alden, T.H. (1968) *Trans. ASM*, **61**, 559.
428. Alden, T.H. (1967) *Acta Met.*, **15**, 469.
429. Holt, D. L. & Backofen, W.A. (1966) *Trans. ASM*, **59**, 755.
430. Lee, D. (1969) *Acta Met.*, **17**(8), 1057.
431. Hart, E.W. (1967) *Acta Met.*, **15**, 1545.
432. Alden, T.H. (1969) *Acta Met.*, **17**(12), 1435.
433. Langdon, T.G. (1994) *Acta Metall. Mater.*, **42**(7), 2437.
434. Raj, R. & Ashby, M.F. (1971) *Metall. Trans.*, **2**, 1113.
435. Zelin, M.G. & Mukherjee, A.K. (1996) *Mater. Sci. Eng. A*, **208**, 210.
436. Ashby, M.F. & Verral, R.A. (1973) *Acta Metall.*, **21**, 149.
437. Spingarn, J.R. & Nix, W.D. (1978) *Acta Metall.*, **26**, 1389.
438. Padmanabhan, K.A. (1979) *Mater. Sci. Eng.*, **40**, 285.
439. Langdon, T.G. (1991) *Mater. Sci. Eng.*, **137**, 1.
440. Taplin, D.M.R., Dunlop, G.L. & Langdon, T.G. (1979) *Annu. Rev. Mater. Sci.*, **9**, 151.
441. Weertman, J. (1978) *Philos. Trans. Roy. Soc. London A*, **288**, 9.
442. Ruano, O.A., Wadsworth, J. & Sherby, O.D. (1986) *Mater. Sci. Eng.*, **84**, L1.
443. Ball, A. & Hutchison, M.M. (1969) *Met. Sci. J.*, **3**, 1.
444. Langdon, T.G. (1970) *Phil. Mag.*, **26**, 945.
445. Mukherjee, A.K. (1971) *Mater. Sci. Eng. A*, **8**, 83.
446. Arieli, A. & Mukherjee, A.K. (1980) *Mater. Sci. Eng. A*, **45**, 61.
447. Langdon, T.G. (1994) *Acta Mater.*, **42**, 2437.
448. Gifkins, R.C. (1976) *Metall. Trans. A*, **7**, 1225.
449. Fukuyo, H., Tsai, H.C., Oyama, T. & Sherby, O.D. (1991) *ISIJ International*, **31**, 76.
450. Valiev, R.Z. & Langdon, T.G. (1993) *Mater. Sci. Eng. A*, **137**, 949.
451. Langdon, T.G. (1994) *Mater. Sci. Eng. A*, **174**, 225.
452. Pérez-Prado, M.T. (1998) PhD dissertation, Universidad Complutense de Madrid.
453. Cutler, C.P., Edington, J.W., Kallend, J.S. & Melton, K.N. (1974) *Acta Metall.*, **22**, 665.
454. Melton, K.N. & Edington, J.W. (1974) *Scripta Metall.*, **8**, 1141.
455. Bricknell, R.H. & Edington, J.W. (1979) *Acta Metall.*, **27**, 1303.
456. Bricknell, R.H. & Edington, J.W. (1979) *Acta Metall.*, **27**, 1313.

457. Pérez-Prado, M.T., Cristina, M.C., Ruano, O.A. and González-Doncel, G. (1998) *Mater. Sci. Eng.*, **244**, 216.
458. Pérez-Prado, M.T., McNelley, T.R., Ruano, O.A. and González-Doncel, G. (1998) *Metall. Trans. A*, **29**, 485.
459. Tsuzaki, K., Matsuyama, H., Nagao, M. and Maki, T. (1990) *Mater. Trans. JIM*, **31**, 983.
460. Qing, L., Xiaoxu, H., Mei, Y. & Jinfeng, Y. (1992) *Acta Mater.*, **40**, 1753.
461. Liu, J. & Chakrabarti, D.J. (1996) *Acta Mater.*, **44**, 4647.
462. Blackwell, P.L. & Bate, P.S. (1993) *Metall. Trans. A.*, **24**, 1085.
463. Bate, P.S. (1992) *Metall. Trans. A*, **23**, 1467.
464. Blackwell, P.L. & Bate, P.S. (1994) *Superplasticity: 60 Years after Pearson*, Ridley, N. Ed., The Institute of Materials, Manchester, UK, p. 183.
465. Johnson, R.H., Parker, C.M., Anderson, L. & Sherby, O.D. (1968) *Phil. Mag.*, **18**, 1309.
466. Naziri, N. & Pearce, R. (1970) *J. Inst. Met.*, **98**, 71.
467. McDarmaid, D.S., Bowen, A.W. & Partridge, P.G. (1984) *Mater. Sci. Eng. A*, **64**, 105.
468. Ruano, O.A. & Sherby, O.D. (1988) *Revue Phys. Appl.*, **23**, 625.
469. Sherby, O.D. & Ruano, O.A. (1982) *Proc. Int. Conf. Superplastic Forming of Structural Alloys*, Paton, N.E. & Hamilton, C.H. Eds., TMS, Warrendale, PA, p. 241.
470. Watts, B.M., Stowell, M.J., Baike, B.L. and Owen, D.G.E. (1976) *Met. Sci. J.*, **10**, 189.
471. Grimes, R. (1988) *Advances and Future Directions in Superplastic Materials*, NATO-AGARD Lecture Series, No. 168, p. 8.1.
472. Wert, J.A., Paton, N.E., Hamilton, C.H. & Mahoney, M.W. (1981) *Metall. Trans. A*, **12**, 1267.
473. Pérez-Prado, M.T., McMahon, M.E. & McNelley, T.R. (1998) *Modeling the Mechanical Response of Structural Materials*, Taleff, E.M. & Mahidhara, R.K. Eds., TMS, Warrendale, PA, p. 181.
474. Melton, K.N., Edington, J.W., Kallend, J.S. & Cutler, C.P. (1974) *Acta Metall.*, **22**, 165.
475. Randle, V. (1992) *Microtexture Determination and Its Applications*, The Institute of Metals.
476. Kocks, U.F., Tomé, C.N. & Wenk, H.R. (1998) *Texture and Anisotropy*, Cambridge Univ. Press.
477. Hosford, W.F. (1993) *The Mechanics of Crystals and Textured Polycrystals*, Oxford Univ. Press.
478. Mabuchi, M. & Higashi, K. (1998) *JOM*, **50**(6), 34.
479. Hosokawa, H. & Higashi, K. (Eds.) (2000) *Materials Science Research International*, Vol. 6, (no.3), Fourth International Symposium on Microstructure and Mechanical Properties of Engineering Materials (IMMM'99), Beijing, China, September 20-23, 1999, Soc. Mater. Sci. Japan, 153.
480. Langdon, T.G., Furukawa, M., Horita, Z. & Nemoto, M. (1999) *JOM*, **50**(6), 41.
481. Mishra, R.S. (2001) *Journal of Metals*, **53**(3), 23.
482. Mabuchi, M., Koike, J., Iwasaki, H., Higashi, K. & Langdon, T.G. (1994) *Materials Science Forum*, **170-172**, 503.
483. Kim, H.Y. & Hong, S.H. (1994) *Scripta Metall. Mater.*, **30**, 297.
484. Huang, X., Liu, Q., Yao, C. & Yao, M. (1991) *J. Mater. Sci. Lett.*, **10**, 964.
485. Matsuki, K., Matsumoto, H., Tokizawa, M., Takatsuji, N., Isogai, M., Murakami, S. & Murakami, Y. (1991) *Science and Engineering of Light Metals*, Hirano, K., Oikawa, H. & Ikeda, K., Eds., The Japan Institute of Light Metals, Tokyo.

486. Nieh, T.G., Imai, T., Wadsworth, J. & Kojima, S. (1994) *Scripta Metall. Mater.*, **31**, 1685.
487. Mabuchi, M. & Imai, T. (1990) *J. Mater. Sci. Lett.*, **9**, 763.
488. Imai, T., Mabuchi, M., Tozawa, Y. & Yamada, M. (1990) *Journal of Materials Science Letters*, **9**, 255.
489. Mabuchi, M., Higashi, K., Inoue, K. & Tanimura, S. (1992) *Scripta Metall. Mater.*, **26**, 1839.
490. Imai, T., L'Esperance, G. & Hong, B.D. (1991) *Scripta Metall. Mater.*, **25**, 2503.
491. Nieh, T.G. & Wadsworth, J. (1991) *Mater. Sci. Eng.*, **147**, 129.
492. Nieh, T.G., Wadsworth, J. & Imai, T. (1992) *Scripta Metall. Mater.*, **26**, 703.
493. Mabuchi, M., Higashi, K. & Langdon, T.G. (1994) *Acta Metall. Mater.*, **42**(5), 1739.
494. Mabuchi, M. & Higashi, K. (1994) *Phil. Mag. Lett.*, **70**(1), 1.
495. Koike, J., Mabuchi, M. & Higashi, K. (1994) *Acta Metall. Mater.*, **43**(1), 199.
496. Mabuchi, M., Koike, J., Iwasaki, H., Higashi, K. & Langdon, T.G. (1994) *Mater. Sci. Forum*, **170-172**, 503.
497. Mabuchi, M. & Higashi, K. (1994) *Mater. Trans. JIM*, **35**(6), 399.
498. Higashi, K., Nieh, T.G., Mabuchi, M. & Wadsworth, J. (1995) *Scripta Metall. Mater.*, **32**(7), 1079.
499. Mishra, R.S. & Mukherjee, A.K. (1991) *Scripta Metall. Mater.*, **25**, 271.
500. Mishra, R.S., Bieler, T.R. & Mukherjee, A.K. (1995) *Acta Metall. Mater.*, **43**(3), 877.
501. Bieler, T.R., Mishra, R.S. & Mukherjee, A.K. (1996) *JOM*, **48**, 52.
502. Mishra, R.S. Bieler, T.R. & Mukherjee, A.K. (1997) *Acta Mater.*, **45**(2), 561.
503. Artz, E., Ashby, M.F. & Verrall, R.A. (1983) *Acta Metall.*, **31**, 1977.
504. Mabuchi, M. & Higashi, K. (1995) *Mater. Trans. JIM*, **36**(3), 420.
505. Mabuchi, M. & Higashi, K. (1996) *Scripta Mater.*, **34**(12), 1893.
506. Li, Y. & Langdon, T.G. (1998) *Acta Mater.*, **46**(11), 3937.
507. Langdon, T.G. (1999) *Mater. Sci. Forum*, **304-306**, 13.
508. Li, Y. & Langdon, T.G. (1999) *Acta Mater.*, **47**(12), 3395.
509. Mabuchi, M. & Higashi, K. (1996) *Phil. Mag. A.*, **74**, 887.
510. Park, K.T. & Mohamed, F.A. (1995) *Metall. Mater. Trans.*, **26**, 3119.
511. Nieh, T.G., Gilman, P.S. & Wadsworth, J. (1985) *Scripta Metall.*, **19**, 1375.
512. Bieler, T.R., Nieh, T.G., Wadsworth, J. & Mukherjee, A.K. (1988) *Scripta Metall. Mater.*, **22**, 81.
513. Bieler, T.R. & Mukherjee, A.K. (1990) *Mater. Sci. Eng. A*, **128**, 171.
514. Higashi, K., Okada, T., Mukai, T. & Tanimura, S. (1992) *Mater. Sci. Eng.*, **159**, L1.
515. Higashi, K. (1993) *Mater. Sci. Eng.*, **166**, 109.
516. Gregory, J.K., Gibeling, J.C. & Nix, W.D. (1985) *Metall. Trans. A*, **16**.
517. Higashi, K., Nieh, T.G. & Wadsworth, J. (1995) *Acta Metall. Mater.*, **43**(9), 3275.
518. Watanabe, H., Mukai, T., Mabuchi, M. & Higashi, K. (1999) *Scripta Metall.*, **41**(2), 209.
519. Hsiao, I.C. & Huang, J.C. (1999) *Scripta Mater.*, **40**(6), 697.
520. Watanabe, H., Mukai, T., Ishikawa, K., Mabuchi, M. & Higashi, K. (2001) *Mater. Sci. Eng.*, **307**, 119.
521. Sergueeva, A.V., Stolyarov, V.V., Valiev, R.Z. & Mukherjee, A.K. (2000) *Scripta Mater.*, **43**, 819.
522. Horita, Z., Furukawa, M., Nemoto, M., Barnes, A.J. & Langdon, T.G. (2000) *Acta Mater.*, **48**, 3633.
523. Bhattacharya, S.S., Betz, U. & Hahn, H. (2001) *Scripta Mater.*, **44**, 1553.

524. Komura, S., Horita, Z., Furukawa, M., Nemoto, M. & Langdon, T.G. (2001) *Metall. Trans. A*, **32**, 707.
525. Mohamed, F.A. & Li, Y. (2001) *Mater. Sci. Eng. A*, **298**, 1.
526. Mishra, R.S., Valiev, R.Z., McFadden, S.X., Islamgaliev, R.K. & Mukherjee, A.K. (2001) *Mater. Sci. Eng.*, **81**, 37.
527. McFadden, S.X., Mishra, R.S., Valiev, R.Z., Zhilyaev, A.P. & Mukherjee, A.K. (1999) *Nature*, **398**, 684.
528. Mishra, R.S., McFadden, S.X. & Mukherjee, A.K. (1999) *Mater. Sci. Forum*, **304-306**, 31.
529. Islamgaliev, R.K., Valiev, R.Z., Mishra, R.S. & Mukherjee, A.K. (2001) *Mater. Sci. Eng.*, **304-306**, 206.
530. Bohn, R., Klassen, T. & Bormann, R. (2001) *Intermetallics*, **9**, 559.
531. Mishra, R.S. & Mukherjee, A.K. (1998) *Int. Conf. On Superplasticity and Superplastic Forming*, Ghosh, A.K. & Bieler, T.R. Eds., The Minerals, Metals & Materials Society. p. 109.
532. Valiev, R.Z., Gayanov, R.M., Yang, H.S. & Mukherjee, A.K. (1991) *Scripta Metall. Mater.*, **25**, 1945.
533. Valiev, R.Z., Song, C., McFadden, S.X., Mukherjee, A.K. & Mishra, R.S. (2001) *Phil. Mag. A*, **81**(1), 25.
534. Yamakov, V., Wolf, D., Salazar, M., Phillpot, S.R. & Gleiter, H. (2001) *Acta Mater.*, **49**, 2713.
535. Turnbull, D. & Fisher, J.C. (1949) *J. Chem. Phys.*, **17**, 71.
536. Christian, J.W. (1975) *The Theory of Transformations in Metals and Alloys*, 2nd edn., Pergamon Press, Oxford.
537. Humphreys, F.J. & Hatherly, M. (1995) *Recrystallization and Related Annealing Phenomena*, Pergamon Press, Oxford.
538. Cahn, R.W. (1949) *J. Inst. Met.*, **76**, 121.
539. Jonas, J.J. (1994) *Mater. Sci. and Eng.*, **A184**, 155.
540. Sakai, T. & Jonas, J.J. (1984) *Acta Metall.*, **32**, 189.
541. Barrabes, S., Daraio, C., Kassner, M.E., Hayes, T.A. & Wang, M.-Z. (2002). *Light Metals*, Lewis, T., Ed., CIM, Montreal, p. 825.
542. Hornbogen, E. & Koster, U. (1978) *Recrystallization of Metallic Materials*, Haessner, F. and Dr. Riederer, Eds., Verlag, Berlin, p. 159.
543. Blum, W. & Reppich, B. (1985) *Creep Behavior of Crystalline Solids*, Wilshire, B. & Evans, R.W. Eds., Pineridge Press, Swansea, UK. p. 83.
544. Reppich, B. (1993) *Materials Science and Technology*, Cahn, R.W., Haasen, P. & Kramer, E.J. Eds., VCH, Weinheim, Vol. 6, p. 312.
545. Reppich, B. (2002) *Zeit. Metallk.*, **93**, 605.
546. Arzt, E. (1991) *Res Mechanica*, **31**, 399.
547. Arzt, E., Dehm, G., Gumbsch, P., Kraft, O. and Weiss, D. (2001) *Prog. Mater. Sci.*, **46**, 283.
548. Ansell, G.S. (1968) *Oxide Dispersion Strengthening*, Ansell, G.S., Cooper, T.D. & Lenel, F.V. Eds., Gordon and Breach, New York. p. 61.
549. Ashby, M.F. (1970) *Strength of Metals and Alloys*, ASM, Materials Park, OH. p. 507.
550. Brown, L.M. (1982) *Fatigue and Creep of Composite Materials*, Proc. 3<sup>rd</sup>. Riso Int. Symp. on Metallurgy and Materials Science, Linholt, H. & Talreja, R. Eds., p. 1.

551. Bilde-Sorensen, J.B. (1983) *Deformation of Multi-Phase and Particle Containing Materials*, 4<sup>th</sup> Riso Int. Symp. on Metallurgy and Materials Science, Bilde-Sorensen, J.B. Ed., p. 1.
552. Sellars, C.M. and Petkovic-Luton, R. (1980) *Mater. Sci. and Eng.*, **46**, 75.
553. Lin, J. & Sherby, O.D. (1981) *Res Mech.*, **2**, 251.
554. Martin, J.W. (1980) *Micromechanics in Particle-Hardened Alloys*, Cambridge.
555. Ashby, M.F. (1966) *Acta Metall.*, **14**, 679.
556. Zhu, Q., Blum, W. and McQueen, H.J. (1996) *Materials Sci. Forum*, **217–222**, 1169.
557. Lund, R.W. & Nix, W.D. (1976) *Acta Metall.*, **24**, 469.
558. Pharr, G.M. & Nix, W.D. (1976) *Scripta Metall.*, **10**, 1007.
559. Ansell, G.S. & Weertman, J. (1959) *Trans AIME*, **215**, 838.
560. Arzt, E. & Ashby, M.F. (1982) *Scripta Metall.*, **16**, 1282.
561. Brown, L.M. & Ham, R.K. (1971) *Strengthening Methods in Crystals*, Kelly, A. & Nicholson, R.B. Eds., Applied Science, London. p. 9.
562. Arzt, E. & Wilkinson, D.S. (1986) *Acta Metall.*, **34**, 1893.
563. Hausselt, J.H. & Nix, W.D. (1977) *Acta Metall.*, **25**, 1491.
564. Stevens, R.A. & Flewett, P.E.J. (1981) *Acta Metall.*, **29**, 867.
565. Evans, H.E. & Knowles, G. (1980) *Metal Sci.*, **14**, 262.
566. Bacon, D.J., Kocks, U.F. and Scattergood, R.O. (1973) *Phil. Mag.*, **8**, 1241.
567. Lagneborg, R. (1973) *Scripta Metall.*, **7**, 605.
568. Nardone, V.C. & Tien, J.K. (1983) *Scripta Metall.*, **17**, 467.
569. Schroder, J.H. & Arzt, E. (1985) *Scripta Metall.*, **19**, 1129.
570. Reppich, B. (1997) *Acta Mater.*, **46**, 61.
571. Srolovitz, D., Luton, M.J., Petkovic-Luton, R., Barnett, D.M. and Nix, W.D. (1984) *Acta Metall.*, **32**, 1079.
572. Behr, R., Mayer, J. and Arzt, E. (1999) *Intermetall.*, **17**, 423.
573. Rosler, J. & Arzt, E. (1988) *Acta Metall.*, **36**, 1043.
574. Arzt, E. & Rosler, J. (1988) *Acta Metall.*, **36**, 1053.
575. Rosler, J. & Arzt, E. (1990) *Acta Metall.*, **38**, 671.
576. Arzt, E. & Gohring, E. (1998) *Acta Metall.*, **46**, 6584.
577. Reppich, B., Brungs, F., Hummer, G. & Schmidt, H. (1990) *Creep and Fracture of Eng. Mater. and Structures*, Wilshire, B. & Evans, R.W. Eds., Inst. of Metals, London, p. 141.
578. Ajaja, O., Towson, T.E., Purushothaman, S. and Tien, J.K. (1980) *Mater. Sci. and Eng.*, **44**, 165.
579. Reppich, B., Bugler, H., Leistner, R. & Schutze, M. (1984) *Creep and Fracture of Engineering Materials and Structures*, Wilshire, B. & Owen, D.R.J. Eds., Pineridge, p. 279.
580. Lagneborg, R. & Bergman, B. (1976) *Met. Sci.*, **10**, 20.
581. Heilmaier, M. & Reppich, B. (1999) *Creep Behavior of Advanced Materials for the 21<sup>st</sup> Century*, Mishra, R.S., Mukherjee, A.K. and Linga Murty, K. Eds., TMS, Warrendale. p. 267.
582. Arzt, E. & Rosler, J. (1988) *Dispersion Strengthened Aluminum Alloys*, Kim, Y.-W. & Griffith, W.M. Eds., TMS, Warrendale. p. 31.
583. Kucharova, K., Zhu, S.J. and Cadek, J. (2003). *Mater. Sci. and Eng.*, **355**, 267.
584. Cadek, J., Oikawa, H. and Sustek, V. (1995) *Mater. Sci. and Eng.*, **A190**, 9.
585. Clauer, A.H. & Hansen, N. (1984) *Acta Metall.*, **32**, 269.
586. Timmins, R. & Arzt, E. (1988) *Scripta Metall.*, **22**, 1353.



587. Spigarelli, S. (2002) *Mater. Sci. and Eng.*, **A337**, 306.
588. Stephens, J.J. & Nix, W.D. (1985) *Metall. Trans.*, **16A**, 1307.
589. Dunand, D.C. & Jansen, A.M. (1997) *Acta Mater.*, **45**, 4569.
590. Jansen, A.M. & Dunand, D.C. (1997) *Acta Mater.*, **45**, 4583.
591. Blum, W. & Portella, P.D. (1983) *Deformation of Multi-Phase and Particle Containing Materials*, J.B. Bilde-Sorenson *et al.* Eds., Riso National Lab., Roskilde. p. 493.
592. Blum, W., private communication, 2002.
593. Sauthoff, G. & Peterseim, J. (1986) *Steel Res.*, **57**, 19.
594. Gregory, J.K., Gibeling, J.C. and Nix, W.D. (1985) *Metall. Trans.*, **16A**, 777.
595. Singer, R.F. & Arzt, E. (1986) *High Temperature Alloys for Gas Turbines and Other Applications*, W. Betz *et al.* Eds., p. 97.
596. Nix, W.D. (1984) *Proceedings Superplastic Forming Symp.*, ASM, Materials Park, OH.
597. Seidman, D.N., Marquis, E.A. and Dunand, D.C. (2002) *Acta Mater.*, **50**, 4021.
598. Sauthoff, G. (1995) *Intermetallics*, VCH, New York.
599. Hemker, K.J. and Nix, W.D. (1997) *Structural Intermetallics*, TMS, Warrendale, PA, p. 21.
600. Stoloff, N.S. and Sikka, V.K., Eds. (1996) *Physical Metallurgy and Processing of Intermetallic Compounds*, Chapman & Hall, New York.
601. Westbrook, J.H. and Fleischer, R.L., Eds. (2000) *Structural Applications of Intermetallic Compounds*, Wiley, New York.
602. Cahn, R.W. (2002) *Mater. Sci. Eng. A*, **324**, 1.
603. Izumi, O. (1989) *Mater Trans JIM*, **30**, 627.
604. Yamaguchi, M. and Umakoshi, Y. (1990) *Prog. Mater. Sci.*, **34**, 1.
605. Deevi, S.C., Sikka, V.K. and Liu, C.T. (1997) *Prog. Mater. Sci.*, **42**, 177.
606. Westbrook, J.H. and Fleischer, R.L., Eds. (2000) *Basic Mechanical Properties and Lattice Defects of Intermetallic Compounds*, Wiley, New York.
607. Veysseyre, P. (2001) *Mater. Sci. Eng. A*, **44**, 309–310.
608. Yamaguchi, M., Inui, H. and Ito, K. (2000) *Acta Mater.*, **48**, 307.
609. Oikawa, H. and Langdon, T.G. (1985) *Creep Behavior of Crystalline Solids*, Wilshire, B., Evans, R.W., Eds., Pineridge, Swansea, UK, p. 33.
610. Nabarro, F.R.N. and de Villiers, H.L. (1995) *The Physics of Creep*, Taylor & Francis, Bristol.
611. Shah, D., Lee, E. and Westbrook, J.H., (2002) *Intermetallic Compounds*, Fleischer, R.L., Ed., Vol. 3, John Wiley & Sons, Chichester, UK, p. 297.
612. Schneibel, J.H. and Hazzledine, P.M. (1992) *Applied Sciences*, **213**, 565.
613. Smallman, R.E., Rong, T.S. and Jones, I.P. (1996) *The Johannes Weertman Symposium*, TMS, Warrendale, PA, p. 11.
614. Sauthoff, G. (1993) *Structural Intermetallics*, TMS, Warrendale, PA, p. 845.
615. Sauthoff, G. (1993) *Diffusion in Ordered Alloys*, Fultz, B., Chan, R.W. and Gupta, D., Eds., TMS, Warrendale, PA, p. 205.
616. Oikawa, H., (1992) *The Processing, Properties and Applications of Metallic and Ceramic Materials*, Warley, UK, p. 383.
617. Kumpfert, J. (2001) *Adv. Eng. Mater.*, **3**, 851.
618. Mishra, R.S., Nandy, T.K., Sagar, P.K., Gogia, A.K. and Banerjee, D. (1996) *Trans. India Inst. Met.* **49**, 331.
619. Stoloff, N.S., Alven, D.A. and McKamey, C.G. (1997) *Nickel and Iron Aluminides: Processing, Properties, and Applications*, ASM International, Materials Park, OH, p. 65.

620. Kim, Y.W. (1994) *J. Metals*, **46**, 31.
621. Kim, Y.W. (1989) *J. Metals*, **41**, 24.
622. Beddoes, J., Wallace, W. and Zhao, L. (1995) *Int. Mater. Reviews* **40**, 197.
623. Zhang, W.J. and Deevi, S.C. (2001) *Structural Intermetallics 2001*, Hemker, K.J., Dimiduk, D.M., Clemens, H., Darolia, R., Inui, H., Larsen, J.M., Sikka, V.K., Thomas, M. and Whittenberger, J.D., Eds., TMS, Warrendale, PA, p. 699.
624. Hall, E.L. and Huang, S.C. (1990) *Acta Mater.*, **38**, 539.
625. Huang, S.C. and Hall, E.L. (1991) *Metall. Trans. A* **22**, 427.
626. Beddoes, J., Zhao, L., Au, P., Dudzinsky, D. and Triantafyllou, J. (1997) *Structural Intermetallics 1997*, Nathal, M.V., Darolia, R., Liu, C.T., Martin, P.L., Miracle, D.B., Wagner, R. and Yamaguchi, M., Eds., TMS, Warrendale, PA, p. 109.
627. Es-Souni, M., Bartels, A. and Wagner, R. (1995) *Mater. Sci. Eng. A*, **192/193**, 698.
628. Worth, D.B., Jones, J.W., and Allison, J.E. (1995) *Metall. Trans. A*, **26**, 2947.
629. Hsiung, L.M. and Nieh, T.G. (1999) *Intermetallics*, **7**, 821.
630. Zhang, W.J. and Deevi, S.C. (2002) *Intermetallics*, **10**, 603.
631. Zhang, W.J. and Deevi, S.C. (2003) *Intermetallics*, **11**, 177.
632. Seo, D.Y., Saari, H., Beddoes, J. and Zhao, L. (2001) *Structural Intermetallics 2001*, Hemker, K.J., Dimiduk, D.M., Clemens, H., Darolia, R., Inui, H., Larsen, J.M., Sikka, V.K., Thomas, M. and Whittenberger, J.D., Eds., TMS, Warrendale, PA, p. 653.
633. Weller, M., Chatterjee, A., Haneczok, G., Wanner, A., Appel, F. and Clemens, H. (2001) *Structural Intermetallics 2001*, Hemker, K.J., Dimiduk, D.M., Clemens, H., Darolia, R., Inui, H., Larsen, J.M., Sikka, V.K., Thomas, M. and Whittenberger, J.D., Eds., TMS, Warrendale, PA., p. 465.
634. Wolfenstine, J. and González-Doncel, G. (1994) *Materials Letters*, **18**, 286.
635. Kroll, S., Mehrer, H., Stolwijk, N., Herzig, C., Rosenkranz, R. and Frommeyer, G. (1992) *Z. Metallkde.*, **83**, 591.
636. Lu, M. and Hemker, K. (1997) *Acta Mater.*, **45**, 3573.
637. Es-Souni, M., Bartels, A. and R. Wagner. (1995) *Acta Metal. Mater.*, **43**, 153.
638. Viswanathan, G.B., Kartikeyan, S., Mills, M.J. and Vasudevan, V.K. (2001) *Mater. Sci. Eng. A*, **833**, 319–321.
639. Viswanathan, G.B., Vasudevan, V.K. and Mills, M.J. (1999) *Acta Mater.*, **47**, 1399.
640. Ishikawa, Y. and Oikawa, H. (1994) *Mater. Trans. JIM.*, **35**, 336.
641. Hirsch, P.B. and Warrington, D.H. (1961) *Phil. Mag. A*, **6**, 715.
642. Friedel, J. (1956) *Phil. Mag. A*, **46**, 1169.
643. Wang, J.N. and Nieh, T.G. (1998) *Acta Mater.*, **46**, 1887.
644. Gouma, P.I., Subramanian, K., Kim, Y.W. and Mills, M.J. (1998) *Intermetallics*, **6**, 689.
645. Chen, W.R., Zhao, L. and Beddoes, J. (1999) *Scripta Mater.*, **41**, 597.
646. Seo, D.Y., Beddoes, J., Zhao, L. and Botton, G.A. (2002) *Mater. Sci. Eng. A*, **810**, 329–331.
647. Chen, W.R., Beddoes, J. and Zhao, L. (2002) *Mater. Sci. Eng. A*, **323**, 306.
648. Chen, W.R., Triantafyllou, J., Beddoes, J. and Zhao, L. (1999) *Intermetallics*, **7**, 171.
649. Parthasarathy, T.A., Subramanian, P.R., Mendiratta, M.G. and Dimiduk, D.M. (2000) *Acta Mater.*, **48**, 541.
650. Bieler, T.R., Seo, D.Y., Everard, T.R. and McQuay, P.A. (1999) *Creep Behavior of Materials for the 21st century*, Mishra, R.S., Mukherjee, A.K. and Murty, K.L., Eds., TMS, Warrendale, PA, p. 181.

651. Beddoes, J., Seo, D.Y., Chen, W.R. and Zhao, L. (2001) *Intermetallics*, **9**, 915.
652. Liu, C.T., Stringer, J., Mundy, J.N., Horton, L.L. and Angelini, P. (1997) *Intermetallics*, **5**, 579.
653. Baker, I. and Munroe, P.R. (1997) *Int. Mater. Reviews*, **42**, 181.
654. Stoloff, N.S. (1998) *Mater. Sci. Eng. A*, **258**, 1.
655. Massalski, T.B. (1986) *Binary Alloy Phase Diagrams*, ASM, Metals Park, OH, p.112.
656. Morris, D.G. and Morris, M.A. (1997) *Mater. Sci. Eng. A*, **23**, 239–240.
657. George, E.P. and Baker, I. (1998) *Intermetallics*, **6**, 759.
658. Morris, D.G., Liu, C.T. and George, E.P. (1999) *Intermetallics*, **7**, 1059.
659. Morris, D.G., Zhao, P. and Morris-Muñoz, M.A. (2001) *Mater. Sci. Eng. A*, **297**, 256.
660. Park, J.W. (2002) *Intermetallics*, **10**, 683.
661. Baker, I., Xiao, H., Klein, O., Nelson, C. and Whittenberger, J.D. (1995) *Acta Metal. Mater.*, **30**, 863.
662. Stoloff, N.S. and Davies, R.G. (1966) *Prog. Mater. Sci.*, **13**, 1.
663. Umakoshi, Y., Yamaguchi, M., Namba, Y. and Murakami, M. (1976) *Acta Metal.* **24**, 89.
664. Hanada, S., Watanabe, S., Sato, T. and Izumi, O. (1981) *Scripta metall.*, **15**, 1345.
665. Schroer, W., Hartig, C. and Mecking, H. (1993) *Z. Metallkde.*, **84**, 294.
666. Yoshimi, K., Hanada, S. and Yoo, M.H. (1995) *Acta Metall. Mater.*, **44**, 4141.
667. Morris, D.G. and Morris, M.A. (1997) *Intermetallics*, **5**, 245.
668. Morris, D.G. (1992) *Ordered Intermetallics-Physical Metallurgy and Mechanical Behavior*, Liu, C.T., Cahn, R.W. and Sauthoff, G., Eds., Kluwer, Dordrecht, p. 123.
669. Paris, D. and Lesbats, P. (1978) *J. Nucl. Mater.*, **69/70**, 628.
670. Wurschum, R., Grupp, C. and Schaefer, H. (1995) *Phys. Rev. Lett.*, **75**, 97.
671. Jordan, J.L. and Deevi, S.C. (2003) *Intermetallics*, **11**, 507.
672. Carleton, R., George, E.P. and Zee, R.H. (1995) *Intermetallics*, **3**, 433.
673. George, E.P. and Baker, I. (1998) *Phil. Mag.*, **77**, 737.
674. Park, J.W. (2002) *Intermetallics*, **10**, 683.
675. Pesicka, J. and Schmitz, G. (2002) *Intermetallics*, **10**, 717.
676. Stein, F., Schneider, A. and Frommeyer, G. (2003) *Intermetallics*, **11**, 71.
677. Ziegler, N. (1932) *Trans. AIME*, **100**, 267.
678. Davies, R.G. (1963) *Trans. AIME*, **227**, 22.
679. McKamey, C.G., Masiasz, P.J. and Jones, J.W. (1992) *J. Mater. Res.*, **7**, 2089.
680. Sikka, V.K., Gieseke, B.G. and Baldwin, R.H. (1991) *Heat Resistant Materials*, Natesan, K. and Tillack, D.J., Eds., ASM, Materials Park, OH, p. 363.
681. Phillips, J., Eggeler, G., Ilshner, B. and Batawi, E. (1997) *Scripta Mater.*, **36**, 693.
682. Deevi, S.C. and Swindeman, R.W. (1998) *Mater. Sci. Eng.*, **258**, 203.
683. Voyzelle, B. and Boyd, J.D. (1998) *Mater. Sci. Eng. A*, **258**, 243.
684. Morris-Muñoz, M.A. (1999) *Intermetallics*, **7**, 653.
685. Sundar, R.S., Kutty, T.R.G. and Sastry, D.H. (2000) *Intermetallics*, **8**, 427.
686. Sastry, D.H., Prasad, Y.V.R.K. and Deevi, S.C. (2001) *Mater. Sci. Eng. A*, **299**, 157.
687. Málek, P., Kratochvíl, O., Pešička, J., Hanus, P. and Šedivá, I. (2002) *Intermetallics* **10**, 895.
688. Whittenberger, J.D. (1986) *Mater. Sci. Eng. A*, **77**, 103.
689. Whittenberger, J.D. (1983) *Mater. Sci. Eng. A*, **57**, 77.
690. Morris, D.G. (1998) *Intermetallics*, **6**, 753.
691. Lin, D., Shan, D. and Li, D. (1994) *Scripta Metall. Mater.*, **31**, 1455.

692. Lin, D., Li, D. and Liu, Y. (1998) *Intermetallics*, **6**, 243.
693. Chu, J.P., Wu, J.H., Yasuda, H.Y., Umakoshi, Y. and Inoue, K. (2000) *Intermetallics*, **8**, 39.
694. Chu, J.P., Kai, W., Yasuda, H.Y., Umakoshi, Y. and Inoue, K. (2002) *Mater. Sci. Eng. A*, **878**, 329–331.
695. Lin, D. and Liu, Y. (2002) *Mater. Sci. Eng. A*, **863**, 329–331.
696. García-Oca, C., PhD dissertation, Universidad Complutense de Madrid-CENIM, Madrid, Spain, 2003.
697. Muñoz-Morris, M.A., Garcia-Oca, C. and Morris, D.G. (2002) *Acta Mater.*, **50**, 2825.
698. Kolluru, D.V. and Baligheid, R.G. (2002) *Mater. Sci. Eng. A*, **328**, 58.
699. Baligheid, R.G., Radhakrishna, A. and Prakash, U. (1998) *Mater. Sci. Eng. A*, **257**, 235.
700. Morris-Muñoz, M.A. (1999) *Intermetallics*, **7**, 653.
701. Sundar, R.S. and Deevi, S.C. (2003) *Mater. Sci. Eng. A*, **357**, 124.
702. Aoki, K. and Izumi, O. (1979) *J. Japan Inst. Metals*, **43**, 1190.
703. Hemker, K.J., Mills, M.J. and Nix, W.D. (1991) *Acta Metall. Mater.*, **39**, 1901.
704. Zhu, W.H., Fort, D., Jones, I.P. and Smallman, R.E. (1998) *Acta Mater.*, **46**, 3873.
705. Knobloch, C., Glock, K. and Glatzel, U., *High-Temperature Ordered Intermetallic Alloys VIII*, 1999, MRS 556, p. 1.
706. Miura, S., Peng, L.-Z. and Mishima, Y. (1997) *High-Temperature Ordered Intermetallic Alloys VII*, MRS 460, p. 431.
707. Shah, D.H. (1983) *Scripta Metall.*, **17**, 997.
708. Hemker, K.J. and Nix, W.D. (1993) *Metall. Trans. A*, **24**, 335.
709. Nathal, M.V., Diaz, J.O. and Miner, R.V. (1989) *High Temperature Ordered Intermetallic Alloys III*, MRS 133, p. 269.
710. Wolfenstine, J., Kim, H.K. and Earthman, J.C., *Mater. Sci. Eng. A* 192/193 (1994) 811.
711. Ham, R.K., Cook, R.H., Purdy, G.R. and Willoughby, G. (1972) *Metall. Sci. J.*, **6**, 205.
712. Anton, D.L., Pearson, D.D. and Snow, D.B., *High Temperature Ordered Intermetallic Alloys II*, 1987, MRS 81, p. 287.
713. Uchic, M.D., Chrzan, D.C. and Nix, W.D. (2001) *Intermetallics*, **9**, 963.
714. Rong, T.S., Jones, I.P. and Smallman, R.E. (1997) *Acta Mater.*, **45**, 2139.
715. Miura, S., Hayashi, T., Takekawa, M., Mishima, Y. and Suzuki, T. (1991) *High-Temperature Ordered Intermetallic Alloys IV*, MRS 213, p. 623.
716. Hsu, S.E., Lee, T.S., Yang, C.C., Wang, C.Y. and Hong, C.H. (1992) *Applied Sciences*, **213**, 597.
717. Hsu, S.E., Tong, C.H., Lee, T.S. and Liu, T.S. (1989) *High-Temperature Ordered Intermetallic Alloys III*, MRS 133, p. 275.
718. Glock, K., Knobloch, C. and Glatzel, U. (2000) *Metal. Mater. Trans. A*, **31**, 1733.
719. Schneibel, J.H. and Horton, J.A. (1988) *J. Mater. Res.*, **3**, 651.
720. Rong, T.S., Jones, I.P. and Smallman, R.R. (1995) *Acta Metall. Mater.*, **43**, 1385.
721. Smallman, R.E., Rong, T.S., Lee, S.C.D. and Jones, I.P., *Materials Science and Engineering A*, **852**, 329–331.
722. Wolfenstine, J., Kim, H.K. and Earthman, J.C. (1992) *Scripta Metall. Mater.*, **26**, 1823.
723. Flinn, P.A. (1960) *Trans. AIME*, **218**, 145.
724. Nicholls, J.R. and Rawlings, R.D. (1977) *J. Mater. Sci.*, **12**, 2456.
725. Schneibel, J.H., Petersen, G.F. and Liu, C.T. (1986) *J. Mater. Res.*, **1**, 68.
726. Rong, T.S., Jones, I.P. and Smallman, R.E. (1994) *Scripta Metall. Mater.*, **30**, 19.

727. Hayashi, T., Shinoda, T., Mishima, Y. and Suzuki, T., *High-Temperature Ordered Intermetallic Alloys IV*, 1991, MRS 213, p. 617.
728. Schneibel, J.H. and Porter, W.D. (1988) *J. Mater. Res.*, **3**, 403.
729. Yang, H.S., Jin, P. and Mukhejee, A.K. (1992) *Mat. Trans. JIM*, **33**, 38.
730. Nemoto, M., Takesue, H. and Horita, Z. (1997) *Mater. Sci. Eng. A*, **327**, 234–236.
731. Zhang, Y. and Lin, D.L. (1993) *High-Temperature Ordered Intermetallic Alloys V*, MRS 288, p. 611.
732. Rawlings, R.D. and Staton-Bevan, A.E. (1975) *J. Mater. Sci.*, **10**, 505.
733. Uchic, M.D. and Nix, W.D. (2001) *Intermetallics*, **9**, 1053.
734. Thornton, P.H., Davis, R.G. and Johnston, T.L. (1970) *Metall. Trans.*, **1**, 207.
735. Lunt, M.J. and Sun, Y.Q. (1997) *Mater. Sci. Eng. A*, **445**, 239–240.
736. Hazzdine, P.M. and Schneibel, J.H. (1989) *Scripta Metall.*, **23**, 1887.
737. Lapin, J. (1999) *Intermetallics*, **7**, 599.
738. Carreño, F., Jiménez, J.A. and Ruano, O.A. (2000) *Mater. Sci. Eng. A*, **278**, 272.
739. Klotz, U.E., Mason, R.P., Gohring, E. and Artz, E. (1997) *Mater. Sci. Eng. A*, **231**, 198.
740. Mason, R.P. and Grant, N.J. (1995) *Mater. Sci. Eng. A*, **192/193**, 741.
741. Mason, R.P. and Grant, N.J. (1995) *High-Temperature Ordered Intermetallic Alloys VI*, MRS 364, p. 861.
742. Veysiere, P., Guan, D.L. and Rabier, J. (1984) *Phil. Mag. A*, **49**, 45.
743. Stoloff, N.S. (1989) *Int. Mater. Rev.*, **34**, 153.
744. Raj, S.V., *Mater. Sci. Eng. A*. (2003) in press.
745. Knobloch, C., Toloraia, V.N. and Glatzel, U. (1997) *Scripta Mater.*, **37**, 1491.
746. Link, T., Knobloch, C. and Glatzel, U. (1999) *Scripta Mater.*, **40**, 85.
747. Peng, Z.L., Miura, S. and Mishima, Y. (1997) *Mater. Trans. JIM*, **38**, 653.
748. Caron, P., Khan, T. and Veysiere, P. (1989) *Phil. Mag. A*, **60**, 267.
749. Brehm, H. and Glatzel, U. (1998) *Int. J. Plasticity*, **15**, 285.
750. Hsu, S.E., Hsu, N.N., Tong, C.H., Ma, C.Y. and Lee, S.Y. (1989) *High Temperature Ordered Intermetallic Alloys II*, MRS 81, p. 507.
751. Fujita, A., Matsumoto, T., Nakamura, M. and Takeda, Y. *High-Temperature Ordered Intermetallic Alloys III*, 1989, MRS 133, p. 573.
752. Shah, D.M. and Duhl, D.N. (1987) *High Temperature Ordered Intermetallic Alloys II*, MRS 81, p. 411.
753. Nazmy, M. and Staubli, M. (1991) *Scripta Metall. Mater.*, **25**, 1305.
754. Khan, T., Caron, P. and Naka, S., *High Temperature Aluminides and Intermetallics*, Whang, S.H., Liu, C.T., Pope, D.P. and Stiegler, J.O., Eds., 1990, TMS, Warrendale PA, p. 219.
755. Pope, D.P. and Ezz, S.S. (1984) *Int. Metals Rev.*, **29**, 136.
756. Whittenberger, J.D., Nathal, M.V. and Book, P.O. (1993) *Scripta Metall.*, **28**, 53.
757. Timmins, R. and Artz, E. (1988) *Scripta Metall.*, **22**, 1353.
758. Miracle, D.B. (1993) *Acta Metall. Mater.*, **41**, 649.
759. Noebe, R.D., Bowman, R.R. and Nathal, M.V. (1993) *Int. Mater. Reviews*, **38**, 193.
760. Whittenberger, J.D., Mannan, S.K. and Kumar, K.S. (1989) *Scripta Metall.*, **23**, 2055.
761. Whittenberger, J.D., Westfall, L.J. and Nathal, M.V. (1989) *Scripta Metall.*, **23**, 2127.
762. Whittenberger, J.D., Reviere, R., Noebe, R.D. and Oliver, B.F. (1992) *Scripta Metall. Mater.*, **26**, 987.
763. Whittenberger, J.D., Ray, R., Jha, S.C. and Draper, S. (1991) *Mater. Sci. Eng. A*, **138**, 83.

764. Arzt, E. and Grahle, P. (1998) *Acta Mater.*, **46**, 2717.
765. Xu, K. and Arsenaault, R.J. (1999) *Acta Mater.*, **47**, 3023.
766. Whittenberger, J.D., Ray, R. and Jha, S.C. (1992) *Mater. Sci. Eng. A*, **151**, 137.
767. Whittenberger, J.D., Artz, E. and Luton, M.J. (1992) *Scripta Metall. Mater.*, **26**, 1925.
768. Whittenberger, J.D., Noebe, R.D., Johnson, D.R. and Oliver, B.F. (1997) *Intermetallics*, **5**, 173.
769. Yang, W., Dodd, R.A. and Strutt, P.R. (1972) *Metall. Trans.*, **3**, 2049.
770. Yang, W.J. and Dodd, R.A. (1973) *Met. Sci. J.*, **7**, 41.
771. Strutt, P.R., Polvani, R.S. and Kear, B.H. (1973) *Scripta Metall.*, **7**, 949.
772. Prakash, A. and Dodd, R.A. (1981) *J. Mater. Sci.*, **16**, 2495.
773. Rudy, M. and Sauthoff, G. (1986) *Mater. Sci. Eng. A*, **81**, 525.
774. Whittenberger, J.D. (1988) *J. Mater. Sci.*, **23**, 235.
775. Whittenberger, J.D. (1987) *J. Mater. Sci.*, **22**, 394.
776. Whittenberger, J.D., Viswanadham, R.K., Mannan, S.K. and Sprissler, B. (1990) *J. Mater. Sci.*, **25**, 35.
777. Rudy, M. and Sauthoff, G. (1985) *High Temperature Ordered Intermetallic Alloys*, MRS 39, p. 327.
778. Vandervoort, R.R., Mukherjee, A.K. and Dorn, J.E. (1966) *Trans. ASM*, **59**, 930.
779. Hocking, L.A., Strutt, P.R. and Dodd, R.A. (1971) *J. Inst. Met.*, **99**, 98.
780. Bevk, J., Dodd, R.A. and Strutt, P.R. (1973) *Metall. Trans.*, **4**, 159.
781. Forbes, K.R., Glatzel, U., Darolia, R. and Nix, W.D. (1993) *High Temperature Ordered Intermetallic Alloys V*, MRS 288, 45.
782. Raj, S.V. and Farmer, S.C. (1993) *High Temperature Ordered Intermetallic Alloys V*, MRS 288, 647.
783. Rudy, M. and Sauthoff, G. (1985) *High Temperature Ordered Intermetallic Alloys*, MRS 39, p. 327.
784. Jung, I., Rudy, M. and Sauthoff, G. (1987) *High Temperature Ordered Intermetallic Alloys*, MRS 81, 263.
785. Whittenberger, J.D., Noebe, R.D., Cullers, C.L., Kumar, K.S. and Mannan, S.K. (1991) *Metall. Trans. A*, **22**, 1595.
786. Marquis, E.A. & Dunand, D.C. (2002) *Scripta Mater.*, **47**, 503.
787. Waddington, J.S. & Lofthouse, K.J. (1967) *J. Nuc. Mater.*, **22**, 205.
788. Stiegler, J.O., Farrell, K., Loh, B.T.M. & McCoy, H.E. (1967) *Trans. ASM Quart.*, **60**, 494.
789. Courtney, T.H. (1990) *Mechanical Behavior of Materials*, McGraw-Hill, New York.
790. Chen, I.W. & Argon, A.S. (1981) *Acta Metall.*, **29**, 1321.
791. Cocks, A.C.F. & Ashby, M.F. (1982) *Prog. Mater. Sci.*, **27**, 189.
792. Nix, W.D. (1988) *Mater. Sci. and Eng.*, **A103**, 103.
793. Needleman, A. & Rice, J.R. (1980) *Acta Metall.*, **28**, 1315.
794. Beere, W. (1983) *Scripta Metall.*, **17**, 13.
795. Chen, I.-W. (1983) *Scripta Metall.*, **17**, 17.
796. Argon, A.S. (1983) *Scripta Metall.*, **17**, 5.
797. Nix, W.D. (1983) *Scripta Metall.*, **17**, 1.
798. Goods, S.H. & Nieh, T.G. (1983) *Scripta Metall.*, **17**, 23.
799. Dyson, B.F. (1983) *Scripta Metall.*, **17**, 31.
800. Riedel, H. (1987) *Fracture at High Temperatures*, Springer-Verlag, Berlin.

801. Mackerle, J. (2000) *Int. J. of Pressure Vessels and Piping*, **77**, 53.
802. Feltham, P. & Meakin, J.D. (1959) *Acta Metall.*, **7**, 614.
803. Dunand, D.C., Han, B.Q. & Jansen, A.M. (1999) *Metall. Trans.*, **30A**, 829.
804. Dobes, F. & Miliska, K. (1976) *Met. Sci.*, **10**, 382.
805. Molinie, E., Piques, R. & Pineau, A. (1991) *Fat. Fract. Eng. Mater. Struct.*, **14**, 531.
806. Larson, F.R. & Miller, J. (1952) *Trans. ASME*, **74**, 765.
807. Murty, K.L., Zhou, Y. & Davarajan, B. (2002) *Creep Deformation: Fundamentals and Applications*, Mishra, R.S., Earthman, J.C. & Raj, S.V. Eds., TMS, Warrendale, PA. p. 3.
808. Ayensu, A. & Langdon, T.G. (1996) *Metall. Trans.*, **27A**, 901.
809. Chen, R.T. & Weertman, J.R. (1984) *Mater. Sci. and Eng.*, **64**, 15.
810. Arai, M., Ogata, T. & Nitta, A. (1996) *JSME Intl. J.*, **39**, 382.
811. Hosokawa, H., Iwasaki, H., Mori, T., Mabuchi, M., Tagata, T. & Higashi, K. (1999) *Acta Mater.*, **47**, 1859.
812. Lim, L.C. & Lu, H.H. (1994) *Scripta Metall. Mater.*, **31**, 723.
813. Yavari, P. & Langdon, T.G. (1983) *J. Mater. Sci. Lett.*, **2**, 522.
814. Weertman, J. (1986) *J. Appl. Phys.*, **60**, 1877.
815. Raj, R. & Ashby, M.F. (1975) *Acta Metall.*, **23**, 699.
816. Davanas, K. & Solomon, A.A. (1990) *Acta Metall. Mater.*, **38**, 1905.
817. Argon, A.S., Chen, I.-W. & Lau, C.W. (1980) *Proc. Symp. Creep Fatigue-Environment Interactions*, Pelloux, R.M. & Stoloff, N.S. Eds., TMS, Warrendale. p. 46.
818. Riedel, H. (1984) *Acta Metall.*, **32**, 313.
819. Chen, C.W. & Machlin, E.S. (1956) *Acta Metall.*, **4**, 655.
820. Fleck, R.G., Taplin, D.M.R. & Beevers, C.J. (1975) *Acta Metall.*, **23**, 415.
821. Gandhi, C. & Raj, R. (1982) *Acta Metall.*, **30**, 505.
822. Dewald, D.K., Lee, T.C., Robertson, I.M. & Birnbaum, H.K. (1990) *Metall. Trans.*, **21A**, 2411.
823. Chen, I.-W. (1983) *Metall. Trans.*, **14A**, 2289.
824. Yoo, M.H. & Trinkaus, H. (1986) *Acta Metall.*, **34**, 2381.
825. Trinkaus, H. & Yoo, M.H. (1987) *Philos. Mag.*, **55**, 269.
826. Nieh, T.G. & Nix, W.D. (1980) *Scripta Metall.*, **14**, 365.
827. Dyson, B.F., Loveday, M.S. & Rodgers, M.J. (1976) *Proc. Royal Soc. London*, **A349**, 245.
828. Watanabe, T. & Davies, P.W. (1978) *Phil. Mag.*, **37**, 649.
829. Greenwood, J.N., Miller, D.R. & Suiter, J.W. (1954) *Acta Metall.*, **2**, 250.
830. Goods, S.H. & Nix, W.D. (1978) *Acta Metall.*, **26**, 739.
831. Lombard, R. & Vehoff, H. (1990) *Scripta Metall. Mater.*, **24**, 581.
832. Cane, B.J. (1979) *Metal. Sci.*, **13**, 287.
833. McClintock, F.A. (1968) *J. App. Mech.*, **35**, 363.
834. Lee, Y.S. & Yu, J. (1999) *Metall. Trans. A*, **30A**, 2331.
835. Oh, Y.K., Kim, G.S. & Indacochea, J.E. (1999) *Scripta Mater.*, **41**, 7.
836. George, E.P., Kennedy, R.L. & Pope, D.P. (1998) *Phys. Stat. Sol. A*, **167**, 313.
837. Yousefani, A., Mohamed, F.A. & Earthman, J.C. (2000) *Metall. Trans.*, **31A**, 2807.
838. Wei, R.P., Liu, H. & Gao, M. (1997) *Acta Mater.*, **46**, 313.
839. Svoboda, J. & Sklenicka, V. (1990) *Acta Metall. Mater.*, **38**, 1141.
840. Kassner, M.E., Kennedy, T.C. & Schrems, K.K. (1998) *Acta Mater.*, **46**, 6445.
841. Randle, V. (1993) *Mater. Sci. Forum*, **113–115**, 189.

842. Yang, M.S., Weertman, J.R. & Roth, M. (1984) *Proc. Sec. Int. Conf. Creep and Fracture of Eng. Mater. and Structures*, Wilshire, B. & Owen, D.R.J. Eds., Pineridge, Swansea. p. 149.
843. Andersen, P.M. & Shewmen, R.G. (2000) *Mech. Mater.*, **32**, 175.
844. Hull, D. & Rimmer, D.E. (1959) *Phil. Mag.*, **4**, 673.
845. Speight, M.V. & Beere, W. (1975) *Met. Sci.*, **9**, 190.
846. Raj, R., Shih, H.M. & Johnson, H.H. (1977) *Scripta Met.*, **11**, 839.
847. Weertman, J. (1973) *Scripta Metall.*, **7**, 1129.
848. Nieh, T.G. & Nix, W.D. (1979) *Acta Metall.*, **27**, 1097.
849. Nieh, T.G. & Nix, W.D. (1980) *Acta Metall.*, **28**, 557.
850. Miller, D.A. & Langdon, T.G. (1980) *Metall. Trans.*, **11A**, 955.
851. Svensson, L.-E. & Dunlop, G.L. (1982) *Met. Sci.*, **16**, 57.
852. Hanna, M.D. & Greenwood, G.W. (1982) *Acta Metall.*, **30**, 719.
853. Cho, H.C., Yu, J. & Park, I.S. (1992) *Metall. Trans.*, **23A**, 201.
854. Broyles, S.E., Anderson, K.R., Groza, J. & Gibeling, J.C. (1996) *Metall. Trans.*, **27**, 1217.
855. Cane, B.J. (1981) *Met. Sci.*, **15**, 302.
856. Mintz, J.M. & Mukherjee, A.K. (1988) *Metall. Trans.*, **19A**, 821.
857. Raj, R. (1978) *Acta Metall.*, **26**, 341.
858. Needham, N.G. & Gladman, T. (1980) *Met. Sci.*, **14**, 64.
859. Needham, N.G. & Gladman, T. (1986) *Met. Sci. and Tech.*, **2**, 368.
860. Stanzl, S.E., Argon, A.S. & Tschegg, E.K. (1986) *Acta Metall.*, **34**, 2381.
861. Chuang, T.-J. & Rice, J.R. (1973) *Acta Metall.*, **21**, 1625.
862. Nix, W.D., Yu, K.S. & Wang, J.S. (1983) *Metall. Trans.*, **14A**, 563.
863. Evans, H.E. (1969) *Metal Sci. J.*, **3**, 33.
864. Chakraborty, A. & Earthman, J.C. (1997) *Acta Mater.*, **45**, 4615.
865. Adams, B.L. (1993) *Mater. Sci. and Eng.*, **A166**, 59.
866. Watanabe, T. (1993) *Mater. Sci. and Eng.*, **A166**, 11.
867. Dyson, B.F. (1976) *Met. Sci.*, **10**, 349.
868. Rice, J.R. (1981) *Acta Metall.*, **29**, 675.
869. Riedel, H. (1985) *Z. Metall.*, **76**, 669.
870. Cho, H.C., Jin Yu and Park, I.S. (1992) *Metall. Trans.*, **23A**, 201.
871. Anderson, P.M. & Rice, J.R. (1985) *Acta Metall.*, **33**, 409.
872. Nix, W.D., Earthman, J.C., Eggeler, G. & Ilschner, B. (1989) *Acta Metall.*, **37**, 1067.
873. Yousefiani, A., El-Nasr, A.A., Mohamed, F.A. & Earthman, J.C. (1997) *Creep and Fracture of Engineering Materials and Structures*, Earthman, J.C. & Mohamed, F.A. Eds., TMS, Warrendale, p. 439.
874. van der Giessen, E. and Tvergaard, V. (1991) *Int. Jour. Fract.*, **48**, 153.
875. Dyson, B.F. (2002) *Creep Deformation: Fundamentals and Applications*, Mishra, R., Earthman, J.C. & Raj, S.V. Eds., TMS, Warrendale, PA. p. 309.
876. Hancock, J.W. (1976) *Met. Sci.*, **10**, 319.
877. Beere, W. & Speight, M.V. (1978) *Metal Sci.*, **12**, 172.
878. Wang, J.S., Martinez, L. & Nix, W.D. (1983) *Acta Metall.*, **31**, 873.
879. Chen, I.-W. & Argon, A.S. (1981) *Acta Metall.*, **29**, 1759.
880. Lee, Y.S., Kozlosky, T.A. & Batt, T.J. (1993) *Acta Metall. Mater.*, **41**, 1841.
881. Schneibel, J.M. & Martinez, L. (1987) *Scripta Metall.*, **21**, 495.
882. Lu, M. & Delph, T.J. (1993) *Scripta Metall.*, **29**, 281.



883. Cadek, J. (1989) *Mater. Sci. and Eng.*, **A117**, L5.
884. van der Giessen, E. van der Burg, M.W.D. Needleman, A.I. & Tvergaard, V. (1995) *J. Mech. Phys. Solids*, **43**, 123.
885. Delph, T.J. (2002) *Metall. Mater. Trans.*, **33A**, 383.
886. Cocks, A.C.F. & Ashby, M.F. (1982) *Met. Sci.*, **16**, 465.
887. Forero, L.E. & Koss, D.A. (1994) *Scripta Met. et Mater.*, **31**, 419.
888. Han, B.Q. & Dunand, D.C. (2002) *Creep Deformation: Fundamentals and Applications*, Mishra, R.S., Earthman, J.C. & Raj, S.V. Eds., TMS, Warrendale, PA. p. 377.
889. Huang, Y., Hutchinson, J.W. & Tvergaard, V. (1991) *J. Mech. and Phys. Sol.*, **39**, 223.
890. Harlow, D.G. & Delph, T.G. (2000) *J. Eng. Mater. and Tech.*, Trans. ASME, **122**, 342.
891. Sherry, A.H. & Pilkington, R. (1993) *Mater. Sci. and Eng.*, **A172**, 51.
892. Ai, S.H., Lupinc, V. & Maldini, M. (1992) *Scripta Metall. Mater.*, **26**, 579.
893. Nix, W.D., Matlock, D.K. & Dimelffi, R.J. (1977) *Acta Metall.*, **25**, 495.
894. Landes, J.D. & Begley, J.A. (1976) *Mechanics of Crack Growth*, ASTM STP 590, ASTM, 128.
895. Wiesner, C., Earthman, J.C., Eggeler, G. & Ilschner, B. (1989) *Acta Metall.*, **37**, 2733.
896. Staley, J.T. & Saxena, A. (1990) *Acta Metall. et Mater.*, **38**, 897.
897. Tabuchi, M., Kubo, K. & Yogi, K. (1993) *Creep and Fracture of Engineering Materials and Structures*, Wilshire, B. & Evans, R.W. Eds., Inst. Metals, London, p. 449.
898. Raj, R. & Baik, S. (1980) *Metal. Sci.*, **14**, 385.
899. Churley, W.E. & Earthman, J.C. (1997) *Metall. Trans.*, **28A**, 763.
900. Wilkinson, D.S. & Vitek, V. (1982) *Acta Metall.*, **30**, 1723.
901. Wilkinson, D.S. (1981) *Mater. Sci. Eng.*, **49**, 31.
902. Miller, D.A. & Pilkington, R. (1980) *Metall. Trans.*, **11A**, 177.