The Time-Temperature-Transformation Diagram within the Medium Temperature Range in Some Alloy Steels
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Fig. 2—TTT diagrams of the middle temperature range of some alloy steels: (a) 15CrMnMoV steel austenitized at 1243 K; (b) 18Cr2Ni4W steel austenitized at 1173 K; (c) 40CrMnSiMoV steel austenitized at 1193 K; (d) 30CrMnSiNi₂ steel austenitized at 1133 K; (e) GCr15 steel austenitized at 1223 K; and (f) 9CrSi steel austenitized at 1193 K. (G_s, granular structure; B_U, upper bainite; and B_L, lower bainite).

(a)

(b)

(c)

(d)

(e)

(f)

Fig. 3—The morphologies of the products corresponding to the points indicated in Fig. 2(a): (a) bright-field image of TEM at 663 K for an isothermal hold of 6 s; (b) optical microstructure at point (1), holding for 200 s at 783 K, granular structure, G_s ; (c) optical microstructure at point (2), holding for 15 s at 723 K, granular bainite, B_g ; (d) bright-field image of TEM at point (2), holding for 20 s at 723 K, typical upper bainite, B_u ; (e) bright-field image of TEM at point (3), holding for 10 s at 663 K, typical lower bainite, B_l ; (f) optical microstructure at point (4), holding for 2 h at 783 K, composite of granular structure and granular bainite; (g) bright-field image of TEM at point (5), holding for 800 s at 663 K, composite of typical lower bainite and typical upper bainite; (h) bright-field image of TEM at point (6), holding for 3600 s at 573 K, typical lower bainite.