



FIG. 10.6 Critical-current density as a function of magnetic field for high- T_c superconductors at *liquid-nitrogen* temperature (from a compilation by Lee 2002). The critical-current density J_c is normalized to the superconductor area alone (see definitions in Sec. 9.1.2). Again, note strong anisotropy, with J_c being much higher for field parallel to the a, b -axes than to the c -axis of the superconductor. YBCO: /Ni/YSZ $\sim 1 \mu\text{m}$ thick microbridge, 75 K (Civale et al. 2004, Foltyn et al. 1999 and 2003, Macmanus-Driscoll et al. 2004, and a compilation by Lehndorff 2001); Bi-2223: 77 K (Hayashi et al. 1997).