



FIG. 10.10 Deviation of the high-field flux-pinning curve from the Kramer-model expression in a high-quality (high- n) Nb_3Sn sample with tantalum additions. A straight-line extrapolation with this type of “Kramer” plot overvalues B by about 4 T for this conductor. On the other hand, a fit to the general pinning expression in Eq. (10.9) gives $q = 1.4$ and a more accurate effective depinning field of $B = 23.4$ T. Data obtained with a resistivity criterion (triangles) do not differ significantly from those obtained with an electric-field criterion (circles), except near B . (From Ekin 1985.)