14.36   SOURC36 — Current Source
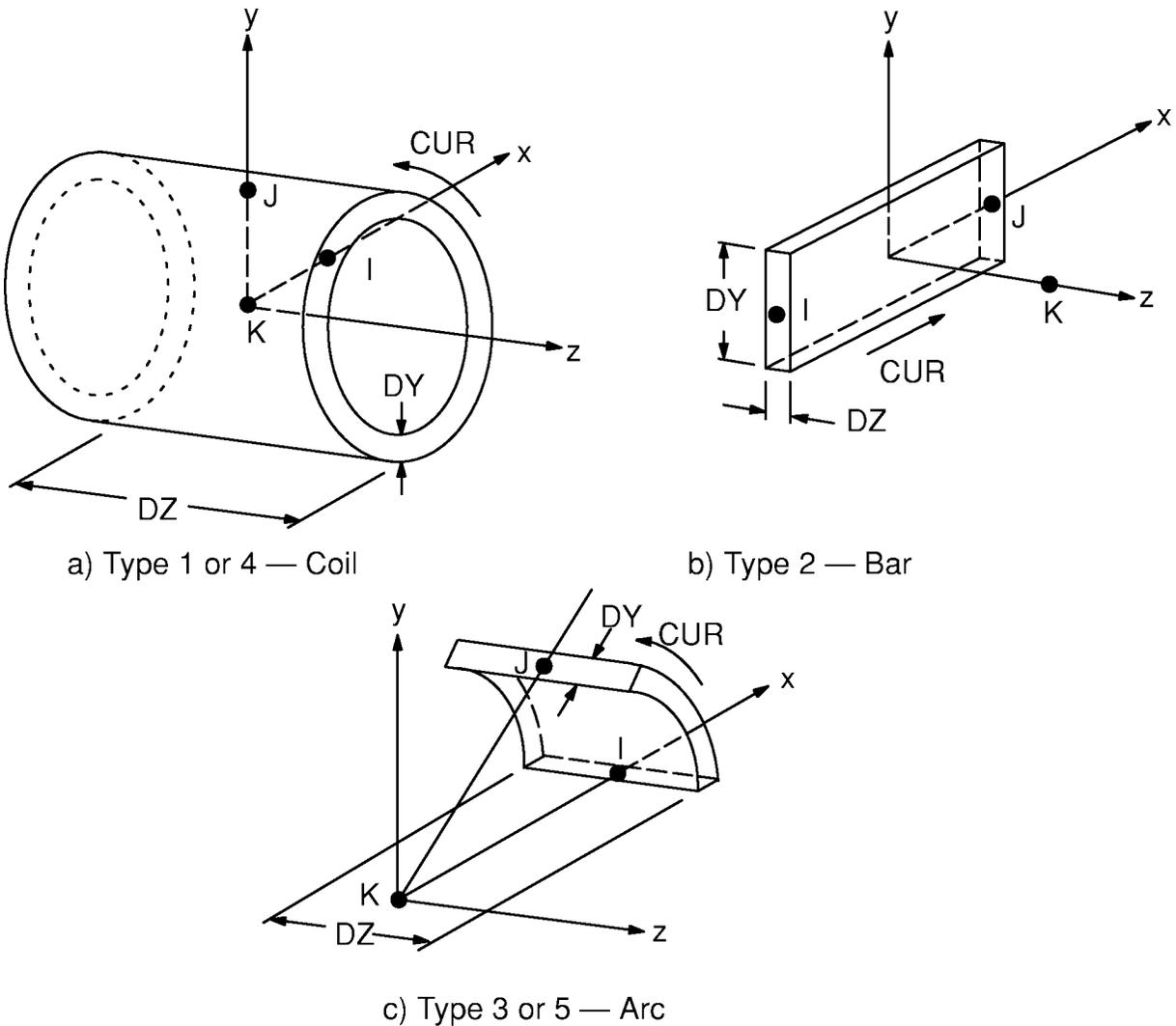

a) Type 1 or 4 — Coil   b) Type 2 — Bar

c) Type 3 or 5 — Arc

14.36.1   Description

The functionality of SOURC36 is basically one of user convenience. It provides a means of specifying the necessary data to evaluate the Biot–Savart integral (equation (5.1–17)) for the simple current source configurations, coil, bar and arc. The magnetic field {H_s} that results from this evaluation in turn becomes a load for the magnetic scalar potential elements (SOLID5, SOLID96 and SOLID98) as discussed in Chapter 5.