182-476. Bois, P., and Oudelette, A. Seismic circular slide rule for the function $V = V_0+KZ$: Inst. Français Pétrole Rev., v. 15, no. 1, p. 93-111, 1960.

This is a description of a circular slide rule that has been devised for computing the function $V=V_0+KZ$ in seismic surveying. On one side the dip α and the normal moveout correction δT may be computed as a function of initial velocity V_0 at the datum plane, velocity gradient K, spread length Δx, two-way time T, and two-way ΔT read on the record. The projected dip α' may also be computed, if true dip α and the angle δ between the plane of projection and the plane in the direction of the true dip are known.

On the other side the depth Z, offset X of a reflector, and radius R of a wave front may be computed, if V_0, K, α, and T are known. Use of the slide rule is illustrated for typical examples. Two charts have been constructed for use in the case of lateral velocity variations; these are described in a separate paper (see Geophys. Abs. 182-475). — D. B. V.