

CONCERNING A NOTE BY V. V. SERKOV

T. S. Zhuravleva

Usp. Fiz. Nauk 87, 582 (November 1965).

THE journal Uspekhi Fizicheskikh Nauk (vol. 82, January 1964, p. 161, transl. Soviet Phys. Uspekhi 7, 49 (1961)) has published a Methodological Note by V. V. Serkov entitled "A Hall-effect Problem," in which the secondary Hall emf and its action are called by the author "a galvanomagnetic paradox." We regard such a designation of the secondary Hall emf as incorrect, since it does not reflect the essence of the phenomena occurring in a Hall pickup with closed output circuit. The occurrence of the secondary Hall emf and its action are valid and have been fully explained theoretically and verified in experiment. This is convincingly shown in the following papers:

¹ B. I. Davydov and I. M. Shmushkevich, Theory of Electronic Semiconductors, UFN **24**(1), 21 (1940).

² F. Kuhrt and W. Hartel, Der Hallgenerator als Vierpol, Arch. Elektrotech. **43**, No. 1 (1957).

³ T. S. Zhuravleva, On the Secondary Hall Effect, Izv. vuzov (Élektromekhanika), No. 12, 135 (1959).

⁴ E. P. Figurnov, Calculation of Circuits with Hall Pickups, *ibid.* No. 12, 1338 (1963).

Translated by J. G. Adashko