

**Treatment of Ionized Impurity Scattering in Degenerate Semiconductors. Combination of the Variational and Perturbational Technique in the Partial-Wave Method**, P. CSAVINSZKY [Phys. Rev. **131**, 2033 (1963)]. The author wishes to thank Dr. D. Long of Minneapolis-Honeywell Regulator Company, Research Center, for calling his attention to some errors in this paper.

In deriving Eq. (8) from Eq. (7) an error was made and in Eq. (8)  $\sin\eta_{0v}$  appears in two places instead of  $\sin 2\eta_{0v}$ . The correct equation is the following:

$$\sigma(\vartheta) = k^{-2}(\eta_{0B}^2 - \eta_{0B} \sin 2\eta_{0v} + \sin^2 \eta_{0v}) + k^{-1}(\sin 2\eta_{0v} - 2\eta_{0B})f_B(\vartheta) + f_B(\vartheta)^2. \quad (8)$$

Another error concerns Eq. (13) where, because of a copying error, the first term of the constant  $C$  appears with an incorrect sign. The correct equation is

$$C = -\frac{R^2}{k^2(1+4k^2R^2)} + \frac{1}{4k^4} \ln(1+4k^2R^2). \quad (13)$$

Since Eq. (8) was used to derive Eq. (12) from Eq. (11), the error has been carried through. The correct expression for Eq. (12) is given by

$$Q = 2\pi \left\{ k^{-2}(\eta_{0B}^2 - \eta_{0B} \sin 2\eta_{0v} + \sin^2 \eta_{0v})A + k^{-1}(\sin 2\eta_{0v} - 2\eta_{0B})(2m^*e_0^2/\kappa\hbar^2)B + (4m^*e_0^4/\kappa^2\hbar^4)C \right\}. \quad (12)$$

The numerical data given in the paper (2nd paragraph, p. 2035) are affected by these errors. The corrected quantities are  $Q^F = 8.50 \times 10^{-13} \text{ cm}^2$  for  $n = 10^{18} \text{ electrons cm}^{-3}$ , and  $Q^F = 2.10 \times 10^{-13} \text{ cm}^2$

for  $n = 5 \times 10^{18} \text{ electrons cm}^{-3}$ , which gives for  $Q^F/Q_0^F$  the values of 0.955 and 0.871, respectively.

This changes the statement expressed in the last sentence in the 2nd paragraph of p. 2035 to: "It is thus seen that though the higher order phase shifts are small compared to the zeroth-order one, their consideration still leads to a decrease in the total scattering cross section and, consequently, in the resistivity by a factor of between 0.955 and 0.871."

**Third-Order Elastic Constants and the Velocity of Small Amplitude Elastic Waves in Homogeneously Stressed Media**, R. N. THURSTON AND K. BRUGGER [Phys. Rev. **133**, A1604 (1964)]. The third and sixth entries in column 4 of Table II on page A1608 should be  $(-b)$  instead of  $\frac{1}{2}(a-b)$ .

**Spectroscopic Study of Controlled Proton Impact on Molecular Nitrogen**, J. L. PHILPOT AND R. H. HUGHES [Phys. Rev. **133**, A107 (1964)]. Because of a misunderstanding of the definition of the term "relative transition probability," column A in Table I is to be modified. The corrected entries are as follows:

Transition	A
0-0	0.641
0-1	0.268
0-2	0.075
0-3	0.016
1-0	0.29
1-1	0.23
1-2	0.28
1-3	0.16
1-4	0.04

Also in Fig. 3, (1,3) should be (1,1), (1,4) should be (1,3), and (1,5) should be (1,4).