

## ERRATA

### Erratum: Transition operators in electromagnetic-wave diffraction theory.

#### II. Applications to optics [Phys. Rev. E 47, 1337 (1993)]

G. E. Hahne

[S1063-651X(96)12010-9]

PACS number(s): 42.25.Fx, 03.50.De, 03.40.Kf, 42.15.Gs, 99.10.+g

This article needs four corrections.

First, Eq. (118) was given incorrectly as a copy of the previous equation, and should read as follows:

$$\mathring{P}_{\Sigma_a}^{M\downarrow+} = \begin{bmatrix} \check{Z}_{\Sigma_a, k_0}^+ (\check{A}_{\Sigma_a}^M \check{Z}_{\Sigma_a, k_0}^+ + \check{C}_{\Sigma_a}^M)^{-1} \check{A}_{\Sigma_a}^M & \check{Z}_{\Sigma_a, k_0}^+ (\check{A}_{\Sigma_a}^M \check{Z}_{\Sigma_a, k_0}^+ + \check{C}_{\Sigma_a}^M)^{-1} \check{C}_{\Sigma_a}^M \\ (\check{A}_{\Sigma_a}^M \check{Z}_{\Sigma_a, k_0}^+ + \check{C}_{\Sigma_a}^M)^{-1} \check{A}_{\Sigma_a}^M & (\check{A}_{\Sigma_a}^M \check{Z}_{\Sigma_a, k_0}^+ + \check{C}_{\Sigma_a}^M)^{-1} \check{C}_{\Sigma_a}^M \end{bmatrix}. \quad (118)$$

Second, there is an incorrect subscript in the lower right corner entry on the right-hand side of Eq. (B34). The equation should be

$$\mathcal{P}_{\Sigma_b, \Sigma_a}^{F+}(\vec{r}_{\Sigma_b}; \vec{r}_{\Sigma_a}) \equiv \begin{bmatrix} -\frac{\partial G_{k_0}^+}{\partial n_{\Sigma_a}}(\vec{r}_{\Sigma_b}; \vec{r}_{\Sigma_a}) & G_{k_0}^+(\vec{r}_{\Sigma_b}; \vec{r}_{\Sigma_a}) \\ -\frac{\partial^2 G_{k_0}^+}{\partial n_{\Sigma_b} \partial n_{\Sigma_a}}(\vec{r}_{\Sigma_b}; \vec{r}_{\Sigma_a}) & \frac{\partial G_{k_0}^+}{\partial n_{\Sigma_b}}(\vec{r}_{\Sigma_b}; \vec{r}_{\Sigma_a}) \end{bmatrix}. \quad (B34)$$

Third, the author's name in Ref. [6] is spelled incorrectly; the reference should be

[6] A. R. Edmonds, *Angular Momentum in Quantum Mechanics*, 2nd ed. (Princeton University Press, Princeton, NJ, 1960).

Fourth, this article and its predecessor Ref. [1] gave an incomplete attribution of the origin of the idea of using approximate boundary conditions of the impedance type ("Leontovich boundary conditions") for electromagnetic-wave scattering. A recently published historical article—Ref. [2]—argued that Shchukin (cf. Ref. [3]) as well as Leontovich proposed this approximation scheme independently and at about the same time. The authors of Ref. [2] state in effect that fairness justifies the use of such a term as "Shchukin-Leontovich boundary conditions" in this instance.

[1] G. E. Hahne, Phys. Rev. E **45**, 7526 (1992).

[2] G. Pelosi and P. Ya. Ufimtsev, IEEE Antennas Propag. Mag. **38**, 31 (1996).

[3] A. N. Shchukin, *Propagation of Radio Waves* (Svyazizdat, Moscow, 1940).

### Erratum: Zipf's law in percolation [Phys. Rev. E 53, 4187 (1996)]

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[S1063-651X(96)12110-3]

PACS number(s): 05.70.Jk, 05.90.+m, 99.10.+g

Inadvertently, a drafting error was introduced during the production process. The abscissa label of Fig. 1 should read  $\log_{10}(n)$ , not  $\log_{10}(s_n)$ . The corrected version of Fig. 1 is reproduced below.

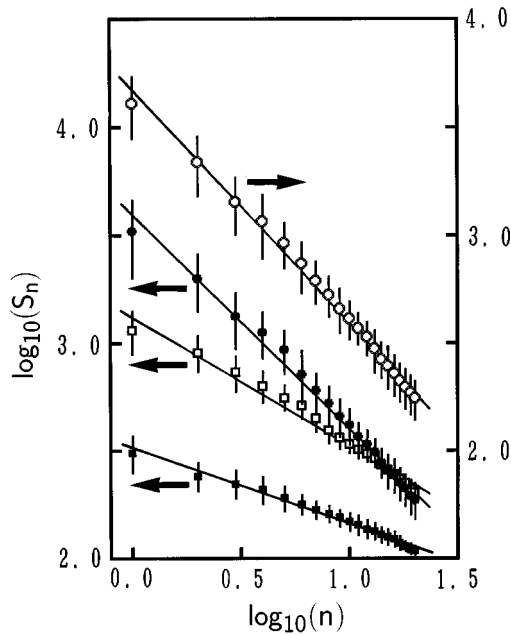


FIG. 1. A log-log plot of the relation between cluster sizes  $s_n$  and their ranks  $n$  in the size order on the square lattice with  $L=200$ . Filled squares are for  $p=0.5000$ , open squares for  $p=0.5500$ , filled circles for  $p=0.5720$ , and open circles for  $p=0.5760$ . Straight lines show the least-squares fitting of the relation. Error bars are the standard deviations of the sizes.

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### Erratum: Spatial Doppler anomaly in an excitable medium [Phys. Rev. E 54, 1120 (1996)]

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[S1063-651X(96)08411-5]

PACS number(s): 82.40.Ck, 99.10.+g

In Eq. (1), the term  $+G\partial_x u$  should read  $-G\partial_x u$ . The correct sign was used in the calculations. Two lines below Eq. (26), instead of “324,” read “32.4.” The correct value was used in the calculations.