
Dmitry A. Smunev a, Patrick C. Chaumet b, Maxim A. Yurkin c,d,*

a Belarusian State University, Nezavisimosti av. 4, 220030 Minsk, Belarus
b Aix Marseille University, CNRS, Centrale Marseille, Institut Fresnel, UMR 7249, 13013 Marseille, France
c Voevodsky Institute of Chemical Kinetics and Combustion SB RAS, Institutskaya Str. 3, 630090 Novosibirsk, Russia
d Novosibirsk State University, Pirogova Str. 2, 630090 Novosibirsk, Russia

In the following we correct a few typographical errors in paper [1]. First, there was a sign error in Eq. (5) – it should read

\[
\mathbf{L}(\partial V_0; \mathbf{r}) = \int_{V_0} d^3\mathbf{r} \frac{\mathbf{R} \cdot \mathbf{R}}{R^3}
\]

This error propagated from the previous publication [2] that has been recently corrected [3]. Second, in Eq. (15) a minus should be removed before the first integral and all arguments \( \mathbf{r} \) of \( \mathbf{L} \) should be replaced by \( \mathbf{r}_i \). The correct expression is

\[
V_d \mathbf{G}^{st}_{1i} = \int_{V_i / V_0} d^3 \mathbf{r} \mathbf{G}^{st}_{1i}(\mathbf{r}, \mathbf{r}_i) = \frac{4\pi}{3} \mathbf{I} = -\mathbf{L}(\partial V_i / V_0, \mathbf{r}_i) - \mathbf{L}(\partial V_0, \mathbf{r}_i) = -\mathbf{L}(\partial V_i, \mathbf{r}_i),
\]

where the second equation is based on the following corollary of the divergence theorem

\[
\forall \mathbf{U}, \mathbf{r} \neq \mathbf{U}: \int_{U} d^3 r \mathbf{G}^{st}_{1i}(\mathbf{r}, \mathbf{r}_i) = -\mathbf{L}(\partial \mathbf{U}, \mathbf{r}),
\]

implicitly based on the corrected Eq. (5).

Finally, on p. 71 (second column, line 14) “filtered coupled dipoles” should read “filtered coupled dipoles” and the bibliographic entry for Ref. [36] should specify that it is available from \( \langle \text{http://a-dda.googlecode.com/svn/tags/rel_1.3b4/doc/manual.pdf} \rangle \).

References


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* Corresponding author at: Voevodsky Institute of Chemical Kinetics and Combustion SB RAS, Institutskaya Str. 3, 630090 Novosibirsk, Russia.
E-mail address: yurkin@gmail.com (M.A. Yurkin).

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