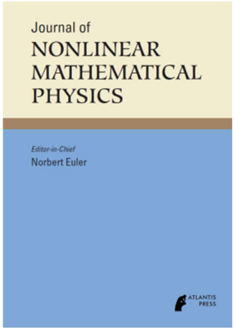

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Corrigendum

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CORRIGENDUM
of
Some remarks on materials with memory: heat conduction and viscoelasticity

Sandra CARILLO

Throughout there are 16 missing "=" signs. Here follows a list of corrected formulas:

1. formula (2.2) page 165 (1 "=" sign missing)
   – **ORIGINAL** $$\mathbf{q}(\mathbf{x},t) - \int_0^\infty k(\mathbf{x},\tau)\nabla\theta(\mathbf{x},t-\tau)\ d\tau \quad ,$$
   – **CORRECTED** $$\mathbf{q}(\mathbf{x},t) = -\int_0^\infty k(\mathbf{x},\tau)\nabla\theta(\mathbf{x},t-\tau)\ d\tau \quad ,$$
2. formula (2.6) page 165 (2 "=" signs missing)
   – **ORIGINAL** $$\mathbf{q}(t) - \int_0^\infty k(\tau)\mathbf{g}(t-\tau)\ d\tau \quad or \quad \mathbf{q}(t)\int_0^\infty \dot{k}(\tau)\bar{\mathbf{g}}^t(\tau)\ d\tau;$$
   – **CORRECTED** $$\mathbf{q}(t) = -\int_0^\infty k(\tau)\mathbf{g}(t-\tau)\ d\tau \quad or \quad \mathbf{q}(t) = \int_0^\infty \dot{k}(\tau)\bar{\mathbf{g}}^t(\tau)\ d\tau;$$
3. formula (2.7) page 166 (1 "=" sign missing)
   – **ORIGINAL** $$\bar{\mathbf{g}}^t(\tau)\int_{t-\tau}^t \mathbf{g}(s)\ ds$$
   – **CORRECTED** $$\bar{\mathbf{g}}^t(\tau) = \int_{t-\tau}^t \mathbf{g}(s)\ ds$$
4. formula (2.10) page 166, on the r.h.s. (1 "=" sign missing)
   – **ORIGINAL**
   $$\widetilde{Q}\{\bar{\mathbf{g}}^t\} := \int_0^\infty \dot{k}(s)\,\bar{\mathbf{g}}^t(s)\ ds \implies \forall T>0,\ \ \widetilde{Q}\{\bar{\mathbf{g}}^{t+T}\}\int_0^\infty \dot{k}(s)\,\bar{\mathbf{g}}^{t+T}(s)\ ds,$$
   – **CORRECTED**
   $$\widetilde{Q}\{\bar{\mathbf{g}}^t\} := \int_0^\infty \dot{k}(s)\,\bar{\mathbf{g}}^t(s)\ ds \implies \forall T>0,\ \ \widetilde{Q}\{\bar{\mathbf{g}}^{t+T}\} = \int_0^\infty \dot{k}(s)\,\bar{\mathbf{g}}^{t+T}(s)\ ds,$$

5. formula (2.11) page 166 (1 "=" sign missing)
   – **ORIGINAL** $$\mathbf{q}(t+T) : \int_0^{\infty} \dot{k}(s)\,\bar{\mathbf{g}}^{t+T}(s)\; ds\; .$$
   – **CORRECTED** $$\mathbf{q}(t+T) := \int_0^{\infty} \dot{k}(s)\,\bar{\mathbf{g}}^{t+T}(s)\; ds\; .$$
6. formula (2.12) page 166 (1 "=" sign missing)
   – **ORIGINAL**
   $$\theta(t)\theta_\star(0) + \int_0^t \dot{\theta}_P(\xi)\; d\xi \quad , \quad \bar{\mathbf{g}}^t(s) = \begin{cases} \displaystyle\int_{t-s}^t \mathbf{g}_P(\xi)\; d\xi & 0 \le s < t \\ \displaystyle\int_0^t \mathbf{g}_P(\xi)\; d\xi + \bar{\mathbf{g}}^0_\star(s-t) & s \ge t\ , \end{cases}$$
   – **CORRECTED**
   $$\theta(t) = \theta_\star(0) + \int_0^t \dot{\theta}_P(\xi)\; d\xi \quad , \quad \bar{\mathbf{g}}^t(s) = \begin{cases} \displaystyle\int_{t-s}^t \mathbf{g}_P(\xi)\; d\xi & 0 \le s < t \\ \displaystyle\int_0^t \mathbf{g}_P(\xi)\; d\xi + \bar{\mathbf{g}}^0_\star(s-t) & s \ge t\ , \end{cases}$$
7. formula (3.9) page 169 (1 "=" sign missing)
   – **ORIGINAL** $$\langle f, \phi \rangle : \int_0^{+\infty} f(t)\cdot\phi(t)\; dt = \frac{1}{2\pi}\int_{-\infty}^{+\infty} f_+(\omega)\cdot\overline{\phi_+(\omega)}\; d\omega\ ,$$
   – **CORRECTED** $$\langle f, \phi \rangle := \int_0^{+\infty} f(t)\cdot\phi(t)\; dt = \frac{1}{2\pi}\int_{-\infty}^{+\infty} f_+(\omega)\cdot\overline{\phi_+(\omega)}\; d\omega\ ,$$
8. formula (3.12) page 169 (1 "=" sign missing)
   – **ORIGINAL** $$\mathcal{H}(\mathbb{R}^+,\mathbb{R}^3) : \left\{\phi : \mathbb{R}^+ \to \mathbb{R}^3 : \left|\int_{-\infty}^{+\infty} k_c(\omega)\phi_+(\omega)\cdot\overline{\phi_+(\omega)}d\omega\right| < \infty\right\}.$$
   – **CORRECTED** $$\mathcal{H}(\mathbb{R}^+,\mathbb{R}^3) := \left\{\phi : \mathbb{R}^+ \to \mathbb{R}^3 : \left|\int_{-\infty}^{+\infty} k_c(\omega)\phi_+(\omega)\cdot\overline{\phi_+(\omega)}d\omega\right| < \infty\right\}.$$
9. formula (3.13) page 170 (1 "=" sign missing)
   – **ORIGINAL** $$\langle f, \phi \rangle_k : \int_{-\infty}^{+\infty} k_c(\omega)\, f_+(\omega)\cdot\overline{\phi_+(\omega)}\; d\omega$$
   – **CORRECTED** $$\langle f, \phi \rangle_k := \int_{-\infty}^{+\infty} k_c(\omega)\, f_+(\omega)\cdot\overline{\phi_+(\omega)}\; d\omega$$
10. formula (3.15) page 170 (1 "=" sign missing)
   – **ORIGINAL** $$\langle \mathbf{I}, \mathbf{g} \rangle : \frac{1}{2\pi}\int_{-\infty}^{+\infty} \mathbf{I}_+(\omega)\cdot\overline{\mathbf{g}_+(\omega)}\, d\omega\ ,$$
   – **CORRECTED** $$\langle \mathbf{I}, \mathbf{g} \rangle := \frac{1}{2\pi}\int_{-\infty}^{+\infty} \mathbf{I}_+(\omega)\cdot\overline{\mathbf{g}_+(\omega)}\, d\omega\ ,$$

11. formula (3.16) page 170 (1 "=" sign missing)
    - **ORIGINAL** $\mathcal{H}'_k(\mathbb{R}^+,\mathbb{R}^3) : \left\{ f : \mathbb{R}^+ \to \mathbb{R}^3 \text{ s.t. } |\langle f,\phi\rangle_k| < \infty,\ \forall\ \phi \in \mathcal{H}_k(\mathbb{R}^+,\mathbb{R}^3) \right\}$,
    - **CORRECTED**

$$\mathcal{H}'_k(\mathbb{R}^+,\mathbb{R}^3) := \left\{ f : \mathbb{R}^+ \to \mathbb{R}^3 \text{ s.t. } |\langle f,\phi\rangle_k| < \infty,\ \forall\ \phi \in \mathcal{H}_k(\mathbb{R}^+,\mathbb{R}^3) \right\} ,$$

12. formula (3.20) page 171, on the r.h.s. (1 "=" sign missing)
    - **ORIGINAL** $\mathcal{W}(\sigma(t),\mathbf{g}_P) := \widetilde{W}\{\bar{\mathbf{g}}^t;\mathbf{g}_P\} \iff \mathcal{W}(\sigma(t),\mathbf{g}_P)\widehat{W}\{\bar{\mathbf{g}}^t;\mathbf{g}_P\}.$
    - **CORRECTED** $\mathcal{W}(\sigma(t),\mathbf{g}_P) := \widetilde{W}\{\bar{\mathbf{g}}^t;\mathbf{g}_P\} \iff \mathcal{W}(\sigma(t),\mathbf{g}_P) = \widehat{W}\{\bar{\mathbf{g}}^t;\mathbf{g}_P\}.$
13. formula (6.1) page 176 (2 "=" signs missing)
    - **ORIGINAL** $f_s(\omega)\int_0^\infty f(\tau)\sin\ \omega\tau\ d\tau \quad , \quad f_c(\omega)\int_0^\infty f(\tau)\cos\ \omega\tau\ d\tau \quad ,$
    - **CORRECTED** $f_s(\omega) = \int_0^\infty f(\tau)\sin(\omega\tau)\ d\tau \quad , \quad f_c(\omega) = \int_0^\infty f(\tau)\cos(\omega\tau)\ d\tau \quad ,$
14. formula (6.3) page 176, on the l.h.s. (1 "=" sign missing)
    - **ORIGINAL** $\tilde{f}(\omega)\int_{-\infty}^\infty f(\tau)e^{-i\omega\tau}\ d\tau \quad \textit{hence} \quad \tilde{f}(\omega) = f_c(\omega) - if_s(\omega) \quad ,$
    - **CORRECTED** $\tilde{f}(\omega) = \int_{-\infty}^\infty f(\tau)e^{-i\omega\tau}\ d\tau \quad \textit{hence} \quad \tilde{f}(\omega) = f_c(\omega) - if_s(\omega) \quad ,$