



Correction

Correction: Zhang, H.; Zhang, X. Generalized Tikhonov Method and Convergence Estimate for the Cauchy Problem of Modified Helmholtz Equation with Nonhomogeneous Dirichlet and Neumann Datum. *Mathematics* 2019, 7, 667

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The authors wish to make the following corrections to this paper [1]:

- 1. In the original paper, the value of the parameter γ is greater than 0. Throughout the article, the value of the parameter γ should be $\gamma \ge 1$.
 - 2. For the definition of function $H_2(n)$ in (23), the original expression is

$$H_2(n) = \frac{e^{-(2T-y)\sqrt{n^2+k^2}}}{\sqrt{K} \left(\frac{\beta(n^2+k^2)^{\gamma}}{K} \left(\frac{1-e^{-2\sqrt{K}T}}{2}\right)^2 + e^{-2T\sqrt{n^2+k^2}}\right)}.$$

We would like to make the following corrections:

$$H_2(n) = \frac{e^{-(2T-y)\sqrt{n^2+k^2}}}{\sqrt{K}\left(\beta(n^2+k^2)^{\gamma-1}\left(\frac{1-e^{-2\sqrt{K}T}}{2}\right)^2 + e^{-2T\sqrt{n^2+k^2}}\right)}.$$

3. In the proof of Theorem 4, the original value of ν is $\nu = \frac{\beta(n^2 + k^2)^{\gamma}}{K} \left(\frac{1 - e^{-2\sqrt{K}T}}{2}\right)^2$. It is corrected as:

$$\nu = \beta (n^2 + k^2)^{\gamma - 1} \left(\frac{1 - e^{-2\sqrt{K}T}}{2} \right)^2.$$

4. The original mathematical expression

$$\frac{e^{-(2T-y)\sqrt{n^2+k^2}}}{\sqrt{K}\left(\frac{\beta(n^2+k^2)^{\gamma}}{K}\left(\frac{1-e^{-2\sqrt{K}T}}{2}\right)^2+e^{-2T\sqrt{n^2+k^2}}\right)}$$

in line three of (49), and line six of (50) is inappropriate.

They should both be:

$$\frac{e^{-(2T-y)\sqrt{n^2+k^2}}}{\sqrt{K}\left(\beta(n^2+k^2)^{\gamma-1}\left(\frac{1-e^{-2\sqrt{K}T}}{2}\right)^2+e^{-2T\sqrt{n^2+k^2}}\right)}.$$

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The authors would like to apologize for any inconvenience caused to the readers by these changes.

References

 Zhang, H.; Zhang, X. Generalized Tikhonov method and convergence estimate for the Cauchy problem of modified Helmholtz equation with nonhomogeneous Dirichlet and Neumann datum. *Mathematics* 2019, 7, 667. [CrossRef]



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