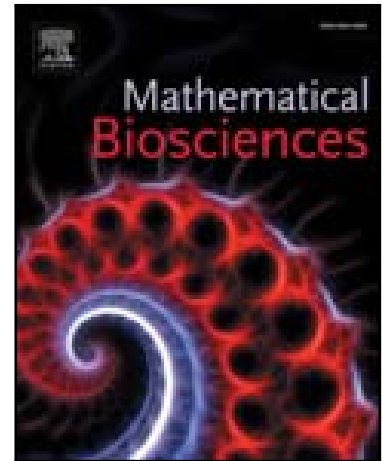


## Accepted Manuscript

Modeling of post-stroke stimulation of cortical tissue

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## Highlights

- A possible method of post-stroke stimulation of the cortical tissue is suggested.
- A speed of cortical waves is determined in a model based on integrodifferential equations.
- The value of external stimulation allowing the restoration of the wave speed in the penumbra is found.
- Stroke intensity is characterized in terms of the properties of the damaged tissue, and the conditions of the successful treatment are formulated.

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