

# Review of: "Analysis method of binary concentration-inhomogeneous systems"

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**Potential competing interests:** No potential competing interests to declare.

In the paper, authors present Analysis method of binary concentration-inhomogeneous systems. Various examples are given. A method for the analysis of binary concentration-inhomogeneous polymer-monomer systems, in which the concentration of components varies continuously from point to point, is proposed. As a characteristic of inhomogeneity serves the distribution function of the polymerization mass over concentrations. The method is based on measuring the dependence of the heat capacity of the polymerization mass on temperature in the temperature range, which includes the glass transition range, and comparing it with the dependence of the heat capacity of homogeneous systems on temperature and concentration, followed by the solution of the Fredholm integral equation of the first kind.

Detailed comments and questions are provided below:

## Issue1:

The current work has some weakness and vague grammatical mistakes and lack of enough literature support are significant concerns.

## Issue2:

English of the entire manuscript needs to be improved for clarity and cohesiveness.

**Issue 3.** Some new references about research subject should be added entirely in the reference list and cited adequately in the text such as following. As it stands, the goal of this review is not evident, and I suggest that it is better organized.

- Application of Kelvin's approach for material structure of CNT: Polynomial volume fraction law. Structural Engineering and Mechanics, *An International Journal*
- FG-based computational fracture of frequency up-conversion for bistability of rotating shell: An effective numerical Scheme. Advances in Concrete Construction, *An International Journal*.
- Controlling of ring based structure of rotating FG shell: Frequency distribution Advances in Concrete Construction, *An International Journal*.
- Structural stability of laminated composite material for the effectiveness of half axial wave mode: Frequency impact. Advances in Concrete Construction, *An International Journal*.

**Issue 4:**

Novelty is not clear. Please write gain this section.

**Issue 5:**

Eq. 1 is without reference

**Issue 6:**

Prepare a list of abbreviation, if possible.

However, in my opinion this paper needs minor revision.

**Issue 8:**

Why do you only provide analysis for specific boundary condition and not for a range of boundary conditions? I guess, it is probably because of the limitation of your modeling. If not, I recommend developing it also for the other boundary conditions.

**Issue 9.**

There are many sentences with no reference. There is a need for referencing from "reliable" and "fundamental" papers or textbooks. The Conclusions section should be improved. The main contributions and outcome of the article should be highlighted.

**Issue 10:**

I suggest to authors that present more explain about the algorithm. I think this is a point the author(s) should mention and discuss. The technique is described too quickly, and a reference to an internal report is not sufficient for a reader.

**Issue 11:**

The language, sentence formation and grammar of the entire manuscript need to be improved for clarity and cohesiveness. It is better to check the English by a native speaker.

**Issue 12:**

Please compare the results with above said references for the validation of paper.