

“MUSHY LAYER”

, 72, 49000, ; e-mail: romayurkov@gmail.com; lknysn@ukr.net

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1. Liu M., Saman W., Brun F. Review on storage materials and thermal performance enhancement techniques for high temperature phase change thermal storage systems. Renewable and Sustainable Energy Reviews. 2012. Vol.16, issue 4. . 2118–2132.
2. Lissner M., Tissot J., Leducq D., Azzouz K., Fournaison L. Performance study of latent heat accumulators: Numerical and experimental study. Applied Thermal Engineering. 2016. Vol.102. . 604–614.
3. « - » . 2014. T.17. . 89–95.
4. 2014. .36, 4. . 5–10.
5. 1967. 600 .
6. Stota D. Direct and inverse one-phase Stefan problem solved by the variational iteration method. Computers & Mathematics with Applications. 2007. Vol.5, issues 7-8. . 1139–1146.
7. Tarkhov D., Vasilyev A. Problems for partial differential equations in the case of the domain with variable borders, pp. 22-30. (Book chapter). Semi-Empirical Neural Network Modeling and Digital Twins Development. Academic. Pr. 2019. 320 p.
8. Yu Y., Luo X., Cui H. The Solution of Two-Phase Inverse Stefan Problem Based on a Hybrid Method with Optimization. Mathematical Problems in Engineering. 2015. Vol.1. . 1–13.
9. Hadži M., Cuo Y. Stability in the Stefan Problem with Surface Tension. Communications in Partial Differential Equations. 2010. Vol.35, ssue 2. . 201–244.
10. : i , 1991. 320 .
11. Wells A. J., Hitchen J. R., Parkinson J. Mushy-layer growth and convection, with application to sea ice. Philosophical transactions. 2019. Vol.377, ssue 2146. . 377–390.
12. Worster M. G. Natural convection in a mushy layer. Journal of Fluid Mechanics. 1991. Vol. 224. . 335–339.

13. *Lee D., Alexandrov D., Huang H.-N.* Numerical Modeling of One-Dimensional Binary Solidification with a Mushy Layer Evolution. *Numerical Mathematics: Theory, Methods and Applications*. 2012. Vol.5, issue 2. . 157–185.
14. *Marangunic P. R., Stampella M. B.* Appearance of mushy regions in a symmetrical Stefan problem with vanishing heat capacity. *European Journal of Applied Mathematics*. 1990. Vol.1, issue 2. . 177–187.
15. . K.: , 2019. 424 .

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