

Russian Mathematics 2015 vol.59 N11, pages 62-67

Integral representation of a solution to three-dimensional elliptic equation with strong degeneration

Khabibullina G., Makletsov S., Mavlyaviev R.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© 2015, Allerton Press, Inc. In a three-dimensional Euclidean space we consider an elliptic equation with strong degeneration. We derive the first and the second Green formula. We also construct a fundamental solution to the equation and obtain an integral representation of its solution.

<http://dx.doi.org/10.3103/S1066369X15110079>

Keywords

degenerate elliptic equations, fundamental solution, integral representation of the solution