

ON SOME SOLUTIONS IN THE FULL COUPLED THEORY OF STEADY
VIBRATIONS FOR SOLIDS WITH DOUBLE POROSITY

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ABSTRACT: In this paper the 2D full coupled theory of steady vibrations of poroelasticity for materials with double porosity is considered. There the fundamental and singular matrixes of solutions are constructed in terms of elementary functions. Using the fundamental matrix we will construct the single and double layer potentials and some their basic properties will be established.