

## ENGINEERING - TECHNICAL CALCULATIONS FOR HEAT TRANSFER PROBLEM IN AN ELECTRIC WIRE

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The article in question deals with the simple algorithms in the modelling of the heat transfer problems in two layer media reducing partial differential equation up to ordinary differential equations (ODE). The increasing of accuracy is shown if instead of initial - value problem of first order [1; 2; 3] ODE the second order differential equation is taken. Such a procedure allows us to obtain a simple engineering algorithm for solving heat transfer equations in two - layered domain.

The cylindrical system of coordinates (with axial symmetry) is discussed. In a stationary case the exact finite difference schema is obtained.

### REFERENCES

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