

CONSTRUCTION OF SOME FUNCTIONS FOR FOURTH ORDER PARTIAL DIFFERENTIAL EQUATION ADDED TO THE TOOLBOX PDE OF MATLAB

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TÓM TẮT:

MATLAB is a technical computing environment with many toolboxes for different areas. The toolbox PDE is one of them. It provides a number of functions for solving partial differential equation (PDE). But it is limited to only second order PDE. Therefore, the development of new functions for other differential equations is of great significance.

Going in this direction we constructed some functions for fourth order PDE realizing the methods and algorithm which we have studied in recent years. These functions are directly added to the toolbox PDE of MATLAB.