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Comparative study of methods for determining temperature fields in a homogeneous bar

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In this article, we make a comparative study of the different methods of studying the temperature propagation fields in a homogeneous bar. This study will show the most effective method. Several comparison parameters are taken into account. We compare the following methods: Finite element method, Finite-difference method (Picard iterative schematic, Euler method based on Taylor series, Runge Kutta method : 2nd, 3rd and 4th order, Crank-Nicolson schematic and Duffort-Frankel) and finite-volume method.

Biography

Pagdame Tiebekabe is a brilliant mathematician and specialist of number theory. He is also interested in research in chemistry and physics as demonstrated by his publications which range from fluid mechanics to Diophantine equations. At first sight, these areas have no connection. He has participated in more than 25 Conferences in several countries. He has published more than 15 papers in important journals.

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