O'ZGARMAS KOEFFITSIENTLI IKKINCHI TARTIBLI BIR JINSLI DIFFERENTSIAL TENGLAMALARINI O'QITISHDA MATEMATIK PAKETLARNI O'RNI

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ANNOTATSIYA

Ushbu maqolada o'zgarmas koeffitsientli ikkinchi tartibli bir jinsli differentsial tenglamalarini analitik yechish usullari yordamida Maple matematik paketidan foydalanib, yechish, aniq amaliy masalalarda bu jarayonni ko'rsatish, masalani yechishning algoritmi va dasturini yaratish ko'zda tutilgan.

Kalit so'zlar: O'zgarmas koeffitsientli**,** ikkinchi tartibli bir jinsli differentsial tenglama matematik paket**,** maple, dsolve, metod.

THE ROLE OF MATHEMATICAL PACKAGES IN THE TEACHING OF SECONDARY DIFFERENTIAL EQUATIONS OF THE SECOND ORDER WITH CONSTANT COEFFICIENCY

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ABSTRACT

This paper deals with the solution of second-order homogeneous differential equations with constant coefficients using the Maple mathematical package using analytical methods, demonstrating this process in specific practical problems, creating an algorithm and program for solving the problem.

Keywords: Mathematical package, maple, dsolve, method of homogeneous second-order differential equations with constant coefficients.