

BIR JINSLI TOR TEBRANISH TENGLAMASI UCHUN I I- CHEGARAVIY MASALANI FURE USULIDA YECHISHDA MATEMATIK PAKETLARNING ROLI

Baxtiyor Zoxirovich Usmonov

Toshkent viloyati Chirchiq davlat pedagogika instituti katta o'qituvchisi

bakhtiyer.usmanov@mail.ru

Gulbar Shavkatovna Tog'ayeva

Toshkent viloyati Chirchiq davlat pedagogika instituti magistranti

Munisa Aminovna Davlatova

Toshkent viloyati Chirchiq davlat pedagogika instituti magistranti

ANNOTATSIYA

Ushbu maqolada bir jinsli tor tebranish tenglamasi uchun II- chegaraviy masalani fure usulida yechishda matematik paketlardan foydalanib, yechish, aniq amaliy masalalarda bu jarayonni ko'rsatish, masalani yechishning algoritmi va dasturini yaratish ko'zda tutilgan.

Kalit so'zlar: Tor tebranish tenglamasi, chegaraviy masala, SHturm-Liuville masalasi, matematik paket, maple, dsolve, metod.

THE ROLE OF MATHEMATICAL PACKAGES IN SOLVING THE I I-BOUNDARY PROBLEM FOR THE SINGLE NETHORS VINK EQUATION

Bakhtiyor Zokhirovich Usmonov

Senior teacher of Chirchik State Pedagogical Institute of Tashkent region

bakhtiyer.usmanov@mail.ru

Gulbar Shavkatovna Togayeva

Master of Chirchik State Pedagogical Institute of Tashkent region

Munisa Aminovna Davlatova

Master of Chirchik State Pedagogical Institute of Tashkent region

ABSTRACT

This paper deals with the solution of the II-boundary value problem for a homogeneous narrow oscillation equation using mathematical packages in the Fure method, to show this process in specific practical problems, to create an algorithm and program for solving the problem.

Keywords: Narrow oscillation equation, boundary value problem, Sturm-Liouville problem, mathematical package, maple, dsolve, method.