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Неравенства типа Джексона-Стечкина для B^2 -почти периодических функций

В. Ф. Бабенко^{*,**}, С. В. Савела^{*}

^{*} Дніпропетровський національний університет ім. Олеся Гончара, Дніпропетровськ 49050. E-mail: svet05@mail.ru

^{**} Інститут прикладної математики і механіки НАН України, Донецьк. E-mail: babenko.vladislav@gmail.com

Знайдені точні нерівності типу Джексона-Стечкина для апроксимації B^2 -майже періодичних функцій, що містять узагальнений модуль неперервності.

Ключові слова: найкраще наближення, B^2 -майже періодичні функції, нерівності типу Джексона-Стечкина, узагальнений модуль неперервності.

Получены точные неравенства типа Джексона-Стечкина для аппроксимации B^2 -почти периодических функций, содержащие обобщенный модуль непрерывности.

Ключевые слова: наилучшее приближение, B^2 -почти периодические функции, неравенства типа Джексона-Стечкина, обобщенный модуль непрерывности.

The exact inequalities of the Jackson-Steckkin type of the approximation B^2 -almost periodic function are obtained.

Key words: best approximation, B^2 -almost periodic function, inequalities of the Jackson-Steckkin type, generalized modulus of continuity.

1. Введение

Для наилучших среднеквадратических приближений 2π -периодических функций $f \in L_2$ тригонометрическими полиномами хорошо известны точные неравенства типа Джексона-Стечкина, полученные Н.И. Черных [1; 2]:

$$E_n(f) < \frac{1}{\sqrt{2}} \omega \left(f, \frac{\pi}{n} \right), \quad (1)$$

$$E_n(f) < \frac{1}{\sqrt{C_{2m}^m}} \omega_m \left(f, \frac{2\pi}{n} \right), \quad (2)$$

где $\omega_m(f, t)$ – модуль неперервності m -го порядку функції $f \in L_2$, $\omega_1(f, t) = \omega(f, t)$. Исследования, связанные с точными неравенствами такого вида, развивались в разных направлениях. При этом, в частности, рассматривались следующие две задачи.

1. Чему равна точная константа в неравенстве

$$E_{n-1}(f)_{L_2} \leq \chi \omega_m \left(f, \frac{\pi}{n} \right)_{L_2}, \quad m \geq 2? \quad (3)$$

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web since the area emerging of modern technology commercial industrial and any system or device that is required to measure store military properties have been extensively using some sort of control calculate or display information is an appropriate security system for safeguarding against theft property candidate for using a microcontroller in it 10

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complex as usb interfacing using pic18f4550 as the microcontroller for