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NECESSARY CONDITION OF BASISITY OF POWER SYSTEM IN  $L_p$

Abstract

At the paper the system of power is considered  $\{A(t)\varphi^n(t); B(t)\overline{\varphi}^k(t)\}$ ,  $n, k \geq 0$ , where  $A(t)$ ,  $B(t)$  and  $\varphi(t)$  are complex valued functions on  $[a, b]$ ;  $\overline{\varphi}$  is a complex conjugation. It is proved that at definite conditions on the functions  $A(t)$ ,  $B(t)$  and  $\varphi(t)$  necessary conditions of basisity of this system in  $L_p$ ,  $1 < p < +\infty$  is  $|\varphi(t)| \equiv \text{const}$ .