

Gurikov O. V., Stefka J.

Least-squares approximation algorithm of frequency response characteristics by rational function and its software implementation.

Software implementation of a frequency response characteristics approximation algorithm via rational function is developed. The software can be used for approximating both the frequency characteristics obtained from sophisticated digital models and experimental frequency characteristics with considerable noise.

Key words: automatic voltage regulator, approximation, frequency response, least squares method.

Gurikov Oleg Viktorovich, Scientific and Technical Center of Unified Power System (STC UPS), St. Petersburg.

E-mail: gurikov_o@ntcees.ru

Stefka Jozef, PhD. tech., Scientific and Technical Center of Unified Power System (STC UPS), St. Petersburg.

E-mail: stefka_j@ntcees.ru