

عنوان مقاله:

Technical and practical examination of Modulations in PLC communication systems

محل انتشار:

ششمین کنفرانس بین المللی پژوهش های نوین در مهندسی برق، کامپیوتر، مکانیک و مکترونیک در ایران و جهان اسلام (سال: 1402)

تعداد صفحات اصل مقاله: 10

نویسنده:

Arash Jalali - Khorasan Regional Electric Company (KREC), Mashhad

خلاصه مقاله:

Analog PLC systems are used in electrical installations to communicate for the purposes of remote protection, sending and receiving data, fax or telephone conversations, which are generally used in high-voltage power transmission lines. The modulation arrangement that is used for this type of system is the SSB range modulation, in which one or more telephone channels are transmitted on a carrier signal, and the frequency range of this carrier signal is from ۲۰ kHz to ۵۰۰ kHz, and sometimes up to ۱ MHz. increases. In this article, the function of PLC and the mode of coupling are examined and then the place of modulation is examined and analyzed.

کلمات کلیدی:

analog PLC, SSB modulation, OFDM modulation

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1708097>

