|  |  |  |
| --- | --- | --- |
|

|  |
| --- |
| **ИНФОРМАЦИЯ О ПУБЛИКАЦИИ** |

 |  |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | eLIBRARY ID: [54737333](https://elibrary.ru/item.asp?id=54737333) | EDN: [JTJTXV](https://elibrary.ru/jtjtxv) |  | DOI: [10.1109/IEEECONF56737.2023.10092183](https://doi.org/10.1109/IEEECONF56737.2023.10092183) |

|  |  |
| --- | --- |
|  | **THE ENERGY SPECTRUM OF THE NOISE MODULATION FUNCTION UNDER THE INFLUENCE OF SLOW MULTIPLICATIVE NOISE** |

|  |  |
| --- | --- |
|  | **ARTYUSHENKO V.M.**1, **VOLOVACH V.I.**21 Technological University, Korolev city, Russia2 Volga Region State University of Service, Togliatty city, Russia |

|  |
| --- |
| Тип: статья в журнале - научная статья Язык: английский |
|  |
| Том: 6Номер: [1](https://elibrary.ru/contents.asp?id=54737325&selid=54737333) Год: 2023 Страницы: 39-44 |

|  |
| --- |
| ЖУРНАЛ: |
|   | [SYSTEMS OF SIGNALS GENERATING AND PROCESSING IN THE FIELD OF ON BOARD COMMUNICATIONS](https://elibrary.ru/contents.asp?id=54737325" \o "Содержание выпусков этого журнала)Учредители: Institute of Radio and Information Systems, Institute of Electrical and Electronics Engineers (IEEE)ISSN: 2768-0096eISSN: 2768-0118 |

|  |
| --- |
| КЛЮЧЕВЫЕ СЛОВА: |
|   | [MULTIPLICATIVE (MODULATING) NOISE](https://elibrary.ru/keyword_items.asp?id=20438936), [NOISE MODULATION FUNCTION](https://elibrary.ru/keyword_items.asp?id=20032082), [ENERGY SPECTRUM](https://elibrary.ru/keyword_items.asp?id=82404), [AMPLITUDE DISTORTION](https://elibrary.ru/keyword_items.asp?id=8487500), [PHASE DISTORTION](https://elibrary.ru/keyword_items.asp?id=100337), [NARROWBAND NORMAL RANDOM PROCESS](https://elibrary.ru/keyword_items.asp?id=25551937), [NON-STATIONARY PULSE-FLUCTUATION PROCESS](https://elibrary.ru/keyword_items.asp?id=20636593), [SLOW MULTIPLICATIVE NOISE](https://elibrary.ru/keyword_items.asp?id=20018061) |

|  |
| --- |
| АННОТАЦИЯ: |
|   | The effect of slow multiplicative noise on the energy spectrum of the noise modulation function is analyzed. Two cases of determining the energy spectrum are considered: with signal distortions described by a narrow-band normal stationary random process, and under the influence of pulse-fluctuation noise. The corresponding mathematical expressions of the energy spectra are obtained, including the case of deep phase distortions. It is shown that when narrow-band multiplicative noise affects the signal, a discrete component is present in the energy spectrum of the noise modulation function. Wherein the depth of the phase distortions will determine the power of said discrete component. The distribution pattern of the continuous part of the energy spectrum of phase distortion is determined by the ratio of the width of the named spectrum to its average frequency. With pulse-fluctuation modulating noise with a deterministic clock interval, the energy spectrum of the noise modulation function is the sum of continuous and discrete parts. Expressions are obtained for determining the discrete and continuous parts of the energy spectrum of the noise modulation function under the influence of modulation noise. The conditions under which the spectrum consists only of discrete components are given. |

|  |
| --- |
| БИБЛИОМЕТРИЧЕСКИЕ ПОКАЗАТЕЛИ: |
|   |

|  |  |
| --- | --- |
|   Входит в РИНЦ: да |   Цитирований в РИНЦ: 0 |
|   Входит в ядро РИНЦ: нет |   Цитирований из ядра РИНЦ: 0 |
|   Рецензии: нет данных |   Процентиль журнала в рейтинге SI:  |

 |

|  |
| --- |
| ТЕМАТИЧЕСКИЕ РУБРИКИ: |
|   |

|  |
| --- |
|  |
|   Рубрика OECD:  | нет   (добавить) |

|  |
| --- |
|  |
|   Рубрика ASJC:  | нет   (добавить) |

|  |
| --- |
|  |
|   Рубрика ГРНТИ:  | нет   (добавить) |

|  |
| --- |
|  |
|   Специальность ВАК:  | нет   (добавить) |

 |

|  |
| --- |
| АЛЬТМЕТРИКИ: |
|   |

|  |  |  |
| --- | --- | --- |
|   Просмотров: 0 (0) |   Загрузок: 0 (0) |   Включено в подборки: 0 |
|   Всего оценок: 0 |   Средняя оценка:  |   Всего отзывов: 0 |

 |

 |  |