|  |  |  |
| --- | --- | --- |
| |  | | --- | | **ИНФОРМАЦИЯ О ПУБЛИКАЦИИ** | |  |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | eLIBRARY ID: [54737422](https://elibrary.ru/item.asp?id=54737422) | EDN: [MPPPYC](https://elibrary.ru/mpppyc) |  | DOI: [10.1109/IEEECONF56737.2023.10092100](https://doi.org/10.1109/IEEECONF56737.2023.10092100) |  |  |  | | --- | --- | |  | **ANALYSIS OF THE EFFECT OF MULTIPLICATIVE NOISE ON THE PATTERNS OF PHASED AND SYNTHESIZED ANTENNA ARRAYS** |  |  |  | | --- | --- | |  | **VOLOVACH V.I.**1,    **ARTYUSHENKO V.M.**2  1 Volga Region State University of Service, Togliatty city, Russia 2 Technological University, Korolev city, Russia |  |  | | --- | | Тип: статья в журнале - научная статья Язык: английский | |  | | Том: 6Номер: [1](https://elibrary.ru/contents.asp?id=54737325&selid=54737422) Год: 2023  Страницы: 520-524 |  |  |  | | --- | --- | | 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: | | |  | [PHASED ANTENNA ARRAY](https://elibrary.ru/keyword_items.asp?id=4001443), [FOCUSED ANTENNA ARRAY](https://elibrary.ru/keyword_items.asp?id=14625919), [MULTIPLICATIVE NOISE](https://elibrary.ru/keyword_items.asp?id=8479), [DIRECTIONAL PATTERN](https://elibrary.ru/keyword_items.asp?id=2573148), [PHASE SHIFTER](https://elibrary.ru/keyword_items.asp?id=197166), [DELAY LINE](https://elibrary.ru/keyword_items.asp?id=178901), [SIGNAL DELAY](https://elibrary.ru/keyword_items.asp?id=586794) |  |  |  | | --- | --- | | АННОТАЦИЯ: | | |  | The influence of multiplicative noise on the directional patterns of phased and synthesized antenna arrays is analyzed. Multiplicative noise is regarded as a source of fast phase and amplitude distortion of signals received or radiated by the antenna. It is shown that multiplicative noise changes the multiplier of the array. Expressions of the directional pattern of the phased array exposed to multiplicative noise are obtained, taking into account the aperture distribution of phasing errors, as well as a generalized directional pattern of the array with phase shifters. The features of arrays with delay lines are described, and an expression for determining the directional pattern of such arrays is obtained. The features of synthesized antenna arrays are considered. The directional pattern of a focused antenna array under the influence of multiplicative noise is analyzed. Expressions for the directional pattern are obtained taking into account the time of the relative delay of signal reception relative to the central element of the array. It is shown that the obtained expressions for the phased antenna array and the array with phase shifters are also valid for synthesized antenna arrays. |  |  |  | | --- | --- | | 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](javascript:item_oecd_add()" \o "Добавить или изменить рубрику OECD)) |  |  | | --- | |  | | Рубрика ASJC: | нет   ([добавить](javascript:item_asjc_add()" \o "Добавить или изменить рубрику ASJC)) |  |  | | --- | |  | | Рубрика ГРНТИ: | нет   ([добавить](javascript:item_grnti_add()" \o "Добавить или изменить основную рубрику публикации)) |  |  | | --- | |  | | Специальность ВАК: | нет   ([добавить](javascript:item_vak_add())) | |  |  |  | | --- | --- | | АЛЬТМЕТРИКИ: | | |  | |  |  |  | | --- | --- | --- | | Просмотров: 0 (0) | Загрузок: 0 (0) | Включено в подборки: 0 | | Всего оценок: 0 | Средняя оценка: | Всего отзывов: 0 | | |  |