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Proceedings - ICOECS 2020: 2020 International Conference on Electrotechnical Complexes and Systems  
27 October 2020, Номер статьи 9278417  
2020 International Conference on Electrotechnical Complexes and Systems, ICOECS 2020; Ufa; Russian Federation; 27 October 2020 до 30 October 2020; Номер категории CFP20S88-USB; Код 165732

## Parameterization of radiation characteristics of energy converters of solar thermal and power plants (Conference Paper)

Moskalenko, N., Dodov, I., Akhmetshin, A.

📄 Сохранить всех в список авторов

Kazan State Power Engineering University, Kazan, Russian Federation

### Краткое описание

📄 Просмотр пристатейных ссылок (18)

The modeling of complex radiative heat exchange in systems of anthropogenically disturbed atmosphere-solar electric and thermal stations is considered. A structural scheme for simulating the influx of solar radiation into the heat-receiving surface of solar thermal and electric power stations is discussed. Calculations of spectral intensities and the flux of solar radiation are performed taking into account the selectivity of molecular absorption of radiation by the ingredients of the atmospheric gas phase, the scattering and absorption of radiation by atmospheric aerosol and clouds, taking into account the statistics of their distribution, depending on the location of stations and the time of year. © 2020 IEEE.

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