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Modeling of Radiative Heat Exchange as a Means of Optimizing Energy Systems (Conference Paper)

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

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Краткое описание

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Numerical modeling of complicated radiate heat exchange in chambers of combustion of energetic systems is discussed as means of optimization of energetic systems. For calculations of temperature profiles iteration method are used. Radiate characteristics of combustion products of fuels are calculated on base data of multi-years experimental researches of spectral transmittance functions of different ingredients of combustion products in region of temperatures from 180 up to 2800K. Special attention is spared multi-chamber heating with gas and coal fuels and hearth burner devices in energetic installations. Calculations radiate heat exchange are performed with using of two-parametric method of equivalent mass for spectral transmittance functions of gas phase ingredients of combustion products energetic fuels and results numerical modeling of optical characteristics of sols on experimental investigation of dispersion phase microstructure. © 2020 IEEE.

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Moskalenko, N. , Akhmetshin, A. , Dodov, I. (2020) *Proceedings - ICOECS 2020: 2020*